

<110> Rosen et al.

<120> 64 Human Secreted Proteins

<130> PZ011

<140> Unassigned

<141> 2001-02-06

<150> 60/180,909

<151> 2000-02-08

<150> 09/669,688

<151> 2000-09-26

<150> 09/229,982

<151> 1999-01-14

<150> 1998-07-15

<151> PCT/US98/14613

<150> 1997-07-16

<151> 60/052,661

<150> 1997-07-16

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<151> 60/056,359

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<150> 1997-08-18

<151> 60/055,985

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<150> 1997-08-18
<151> 60/055,683

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<170> PatentIn Ver. 2.0

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tctcccggac tcctgaggtc acatgcgtgg tgggtggacgt aagccacgaa gacctgagg	180
tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg	240
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atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga	540
ccacgcctcc cgtgctggac tccgacggct ccttcttctt ctacagcaag ctcaccgtgg	600
acaagagcag gtggcagcag ggggaacgtc tctcatgctc cgtgatgcat gaggtcttgc	660
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<220>
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<223> Xaa equals any of the twenty naturally occurring L-amino acids

<400> 2

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1 5

<210> 3
<211> 86
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<213> Homo sapiens

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cccgaaatat ctgccatctc aattag 86

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<211> 27
<212> DNA
<213> Homo sapiens

<400> 4
gcggcaagct ttttgcaaag cctaggc 27

<210> 5
<211> 271
<212> DNA
<213> Homo sapiens

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gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180
ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240
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<212> DNA
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<400> 7
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<210> 8
<211> 12
<212> DNA
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<400> 8
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12

<210> 9
<211> 73
<212> DNA
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gcggcctcga ggggactttc ccgggggactt tccgggggact ttccgggact ttccatcctg 60
ccatctcaat tag 73

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<211> 256
<212> DNA
<213> Homo sapiens

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caattagtcg gcaaccatag tcccggccct aactccgccc atcccgcccc taactccgcc 120
cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180
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cttttgcaaa aagctt 256

<210> 11
<211> 558
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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gcttttctac ttgccgcgt ctcactgctc ggtgtactgg gagggtaacc tgggaggcgt 180
gcctttattc ttccgaaccg ccgctcactg agacagtggc tagaagtgtc tcttgacct 240
gtgagtttagc cttaacctgt tatgccccca gagccctcag tggagcgccc gtactttgcc 300
ggcatgacgt ttgatttccc ggtgataatc cgacgagttt gacagattga ggtagtgagc 360
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agagatagtg ttcttagggc tggtttctact gtctcttaag actgaarggt ggarctggga 480
tatagatgtg ttgtttcttt tcaaatacaa cctgcttarg tcgtcactcg aaggggggcc 540
cggtanccaa ttcgccct 558

<210> 12
<211> 715
<212> DNA
<213> Homo sapiens

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aaaaatattt actgagtgtg gactctagac cagggcctgt gctaggatac aaagatgaat 120

gaggcaccac	ccttatcttc	gagtagtata	tgttttat	tattttat	ttttccctg	180
ctgcctccct	tgagtagtac	atgttttagt	aagggaaca	gacactaaag	agtcctggta	240
atgatgagca	aagtactgca	tgagtaagta	tctggggggc	aagtgtcccc	actaggactc	300
ctgtcagatc	tggaaaaggc	ctgaggaatc	tgatacatga	cttaatgcag	cgtatacttg	360
cagcctggaa	aactaagtaa	tgacaaaata	gacattcttg	tcagtgtgag	ccattctctg	420
agtccmaggg	gagtacataa	ttcaaaccag	aattgggtcat	tttggagttt	gcactcttag	480
cagtatacag	tggagtgaag	tttaagaatc	aatttaattt	cttttcagtt	tttatgtaca	540
taaaacctgc	ttactacaag	agaccagtt	tattattttg	tggtgggtta	cattcataag	600
tatatttcat	cataataagg	ctccgtgaaa	ttagtcattt	tatcatttgc	caataaagac	660
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<210> 13

<211> 838

<212> DNA

<213> Homo sapiens

<400> 13

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tgctctgggt	ttgcttatag	aatcaaatat	gttctcattc	tacctactgt	tttcattcta	120
catagtgttt	tccttcttta	tagttttacg	tcctcttcct	aggaatgagt	ctattaagaa	180
aatagggtgt	atcttttagc	tttggcattt	gactttcagg	ataatagagc	tatctgctac	240
tgacagaaaa	gctttgacaa	gtgtttaata	ctctgggatt	accttcatct	tacttttgca	300
atcattatgt	gaacattgtc	ttccgtccac	atctayaggc	tagtawgtaa	caccgttgac	360
taaatccaaa	ctttaggcta	gggaaaaagg	gtatactttc	tgggtttcgg	ttgtagatta	420
tgtttagatc	taaycaaaac	aggacagtgg	tccaaacaga	aaattgctat	tttctgtatc	480
ttgtaaatct	aggatttgag	tttttaagat	gaatttatgg	ttccctttct	gatatcattt	540
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gttttatata	agaaatggaa	gtaatgatac	tatctttcct	ggaatatttg	caggccccag	660
aggagatgat	gagcaaggac	tggtggcctg	tattacacac	aacagggttg	tagttactat	720
cccagcaagg	aaagggtgta	tctttcttct	ttcatgcaaa	ttatctatga	tgacctaaac	780
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<210> 14

<211> 513

<212> DNA

<213> Homo sapiens

<400> 14

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atccagtgcc	tttccttttt	gcctttgtat	tcattcattt	ggcaaattac	tggaagatga	120
cggttctggc	caaaaggctg	gttttggttt	tgggtcacat	tttcttgctt	ctctgcgtta	180
gaatcttgga	ttagatgatg	gacatggtga	agatctcagc	aacctcattc	actagaagat	240
catgtggatt	ggaatcatac	aatggggaac	aaatggaaaa	gagtactttt	gaaatagtgc	300
tggagaccac	tgtgaccaca	gaatgtcaag	acacgtgctg	ccattactgt	tactattttg	360
aaaatacatt	cttgtaaattg	caaccttagg	gggtttgagg	gggaagtctg	ttgggaaatg	420
aattgcaaga	aaaatattac	accctgaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	480
aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	cga			513

<210> 15

<211> 712

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (565)

<223> n equals a,t,g, or c

<400> 15

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cccggcagcg	gccgccg	cggcactgct	acgggacgag	ccggagcgct	tggccatggc	120
ggcccgatcc	gcactggcgc	tgctgctgct	gctgccagtc	ctgctcctgc	cggtgcagag	180
ycgctcagag	cccagacca	ccgcgccac	ccctaccca	atcccgggtg	gcaactcgtc	240
aktgagcagg	cccctgcca	gcctcgagct	ccacgcctgc	ggccatacc	ccaaaccagg	300
cctgctcatc	ctgctggccc	cgctggccct	gtggccatt	ctcctgtagg	gacgccagc	360
cagccacctc	taagtgcgcg	ctgggactgg	cctgccccat	tgagcaacag	agacgcttga	420
cagccgccc	cctccattcc	ttgacttcac	ccagaaatgg	gtccagaaaa	ctgaatccca	480
ccagcactgg	tttgagcaa	ccggacaccg	aggtttcacc	tccagggrtt	ccatggaaga	540
gcctcaatgg	agatgccaca	tcctnactga	gttaaagatg	ggctgaggaa	cttgggtacc	600
cacaagtytg	ccttgggrat	caaaagaaaa	tatttacctt	tagtttggtt	cattaaatgc	660
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<210> 16

<211> 652

<212> DNA

<213> Homo sapiens

<400> 16

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cgcacagcct	ggctttgggc	ttccctgact	gcaccacca	catcasctgc	ctctagccct	120
taamatacaa	aacttcccc	agtcactggc	cgccaggctg	agttggggga	tgtgttacat	180
ccctgggtcc	actggggggc	agtgttggcc	atggtgttgg	tgctggctct	gccgagaggc	240
gttggagtgg	ctgtgtgggg	cggtgagcgc	cgcccagcc	tgatggaacc	cactgtacca	300
ggcccaggcc	tcagcctctg	agaaggactt	ccctgtgtca	ctcactcata	catgtcctca	360
ggacgtgaag	acatttcagc	agaccaaagt	ttccttcgaa	tttccttcga	atcgtccaga	420
tacttgga	catctcctcc	tcacctgtgg	ggtgctgggg	cagtcctagg	cgtgggggca	480
gatgggtgga	cagctgctgc	tgccctgctg	ggggtgggca	gcccttgag	cacacagtgg	540
tgaagacatt	cctgaatatg	tctcaggctg	tagaaatctt	attttgtgga	aagatttttag	600
agaatcatca	aaataaaactt	ttaccaata	aaaaaaaaaa	aaaaaaactc	ga	652

<210> 17

<211> 742

<212> DNA

<213> Homo sapiens

<400> 17

ggtcgacca	cgcgtctgat	atgatctcct	tatccttctc	cctttgattg	atctttttct	60
ttgagctgat	ttgagctttc	ttcttttctc	tgtagttggc	ggaatcagct	cagttacatt	120
ttttactaag	ttaccacat	tctgacactc	cttgacagtk	ttaagatctt	cttctaacac	180
acttgaatag	aatggatact	ggaatctatt	ttgacagctg	ttgaaaatct	attctgttgt	240
tacaggaggt	taaggaggtt	atgtgtaaca	ctgggattat	ttaatgaacc	ttttgaaaag	300
gtgtgcagac	tgttcaggca	aatagtat	tttagaatta	aatgat	gttttcacag	360
ttaaattatc	aaatgtaatg	cttttaagaa	ttatacacct	agtaatat	ttcattaatt	420
tctccaccag	tgtagtaata	gtacattaca	atgttctcaa	ttaccggtgc	cttctaaaat	480
gcaggtgtag	agtcytaa	tacagctagt	ctatkgccag	ctgtcccata	gataaccttc	540
tcytaa	tgaccttkgr	gcaattycat	aaagaataaa	tatttctagt	ttttgttg	600
tgaactgcta	aaagatgggt	ctatacatgt	aacagggtggc	tttagttggg	ttgctttcac	660
tgaatttga	ttcaaataaa	gcattgcatt	attttacctt	tggaattata	aaaaaaaaaa	720
aaaaaaaaaa	aaaaggcg	cc				742

<210> 18
 <211> 1219
 <212> DNA
 <213> Homo sapiens

<400> 18
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 ctgtttgaga atgcttctta actaatacta gtacaatatc ttcaataatg tatgtacctt 120
 atagaaaatc ttgaacagta caagattttc ataattaagg catgcaaaac tgcttgggct 180
 ctttgattcc aggtgtcctc ttctcccttc tgcttttgcc atctatgttc aatataattc 240
 taacccagtc taagtatgga gaaaattcct accctgcctg cttttatagc tcatcaaatt 300
 tccctgtatc agctatcact tttctggtag gtgtagtctg atttctgtct gtcatgcctt 360
 tgccacaatc ctttctttga agagtaggta aaagatctat taaagtgtta atcacattgc 420
 tctaatatat aaagcctcca gtggtttccc atatcactct gtaaaatgcc ccttgccagc 480
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 ttgccatcct catgtgggga tgtttctgtc tcagagatag tctttattca ggtcccactc 600
 tgcagtcctc tccagagggg ctgctttcac cacccttctt aagtaagcct ctctaaacac 660
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 aaatttactt tatcatttaa tctcttcctc attagaatgt aagctcgtaa gggaggggca 780
 gctctgtagt ttattcatta ttgtatgtcc ctcacctaatt cctatgagtg tctggcccat 840
 attaggggat gtaataaata ttacttgagg aatgaatgaa tttaacatac taccaattct 900
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 gagttcatag atgtaaacaa catcctaggg ktagcaaaact ggtgggccct gagccaaatc 1080
 ctggcctgca catgtatttt gtttgakttg tacaatgttt gttataaatg aactggctga 1140
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 aataaaaaata cggctgggc 1219

<210> 19
 <211> 874
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (461)
 <223> n equals a,t,g, or c

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 cagagttggg atttgaagtc gagttagacc ccagtgatca cagtcttgac gattaaattc 120
 ttccagcttt catttttcac tgagataatg gtagtgatag tactgacctc taatgtgtgc 180
 atttgtgggt atgtgttcca ttcagcttta atccccagaa gacaaggctt attccttttc 240
 ttatttttgg tcatgtttta tttttccatt gcttttaaca ggattaccaa aggcacactc 300
 agtagtcagt aaacacattt ctaggaaagg tgttgtgtca tcatgccaca tattcatact 360
 ttcttgggtt ggaaaataga tcatcagtaa aaacatacag gaaaaatgaa tcttgccaat 420
 gcaattgtta acctacaacc ataataatc ttaagtatat ntttgcacat aagtataaca 480
 tgcgatttaa aacaataaac cagattgaga tctaaggagc attttgtgaa taattactaa 540
 tgtttatttt agagagatca cacaacttca aataaaaact gacatagatt gaacaccttg 600
 agaataaact ttagtgccaa atggaaaata attttttaca agtaaatgtg aagaacaatg 660
 tgaactttct ataattatat acagraaata tactgatttg ccaaaatgag taattttgat 720
 atattaatat ttcacttata agaatgcata ccacctgatc caggatggga tccaggaaca 780
 gaaaaagaac attagktaaa aatgacagaa atctgaatat agtatagagt agctaaaaac 840
 aaaccaaaaa aaaaaaaaaa aaaaaagggc ggcc 874

<210> 20

<211> 464
 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 ggaaattgga actgccaccc agcccagcat ggtggctcaa ttggttggtt gcgttgctcag 180
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 gtttgtaata tttgtaacgg ttttagcagc ctataacttt tcagctgggtg cttttactta 300
 gggaaaaaaa caatttgtaa atacagaaca ttgttttaaa gacataacca tagaacatag 360
 cttcctgttt gtggattttg tttcctatat attcaaagta aaatgactta caggaaaaaa 420
 ataaaaaaaa aaaaaaaaaa aaaaaaatcg gggggggggc ccgg 464

<210> 21
 <211> 637
 <212> DNA
 <213> Homo sapiens

<400> 21
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 ggcagccaca gggaggacat gtggcctcag gaagcctggg tgtgtatcct ggttctgcta 180
 ggaacacgtg tggggctttg tgtgggtgac tctctggctc cccaagcctc cctttcctac 240
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 atatgcagtg agtaccgtgt tgagggagga caaggctcacc aagagctgag aatgtttctc 360
 cgactgatga gacctagata ttgggtacat ggaggtcccc ggtccctttg tgattcctgc 420
 agcctgttgc ctccttgcc ttgacctgac ggaccccgcc tcagctcaga aagccaattc cctagattcc 480
 aaaggccttc ccagaccaat tagcatgtcc tgcagctgtc agctccctgt gcctagcctg 540
 gacctcagct catgtctagc acccagctc ccaacccccc acatattcac aaataaaaaga 600
 aaataacaaa tgaaaaaaaa aaaaaaaaaa aaaaaaat 637

<210> 22
 <211> 752
 <212> DNA
 <213> Homo sapiens

<400> 22
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 ggatagtttag ttgctatttt tatttattta ttattgttgt tgttattata ttactacttt 120
 atcccatttc acaaggatgg catgttgcca acattgtctt tctaaagaat atctctgac 180
 acatccttgt tctattaaaa accttttgaa agctccctct tacctttaga agaaattgga 240
 acttcatgat tcctcatggt ctggctccag cactgagctt ggaatgctag tgtgagatga 300
 ggccttagaa gtcattccagc tgaactcctg gaatttttat agatgaataa atgtagcatc 360
 cagacatttt tcytggtgca ccctgtamg ccattgtcctc ttccagactc ctggataaga 420
 ctgrcagaca tcaccattct cttaaaccag aactacactt gccttcatcc atttgatcac 480
 ctggttccag gtaactcatg agctttgtag cttcccttct ctcagacctt ccaaggaaga 540
 caatggcata attttcccca tatgtcttaa ttagcaacct ttccctgccc ttctgtgggt 600
 gggcagggcc ggacacagtg ggtcacacct gcaacctgta atcccagcac tttgggaggc 660
 tgaggtgggc agattgcctg agctcaggag ttcaagacag tctgggtaac atggcaaaat 720
 cctgtctcaa aaaaaaaaaa aaaaaaatc ga 752

<210> 23
 <211> 492
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (486)
 <223> n equals a,t,g, or c

<400> 23
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 aaggacccag aagtaggggt ttggcctagg taacggggca gagatgtggt tcgagattct 120
 ccccgactc tccgtcatgg gcgtgtgctt gttgattcca ggactggcta ctgcgtacat 180
 ccacaggttc actaacgggg gcaaggaaaa aagggttgct cattttgggt atcactggag 240
 tctgatggaa agagataggc gcatctctgg agttgatcgt tactatgtgt caaagggttt 300
 ggagaacatt gattaaggaa gcattttcct gattgatgaa aaaaataact cagttatggc 360
 catctacccc tgctagaagg ttacagtgtt ttatgtagca tgcaatgtgt tatgtagtgc 420
 ttaataaaaa taaatgaaa aaaawrmaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
 aaaaanaaaa aa 492

<210> 24
 <211> 532
 <212> DNA
 <213> Homo sapiens

<400> 24
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 ctccgggtggg ctgtcgcacc acactgctct tcctttctct tcacgaatca cgcaagcctc 180
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 tattatgggt tttttgttgt tgttggttgt tgggtttttt tttgatggga gcctcagatc 300
 gccgctgttg ctaatcatcc atcttggtcc tgccccacac tttctgcaaa tttaaatatg 360
 agatttgtcc ccttaggtgc acagtccaga ccccatccag tccagctcct tttaaagcca 420
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<210> 25
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 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

<220>
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<222> (920)

<223> n equals a,t,g, or c

<400> 25

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acaatatctg	aatatgcttt	gtcaaactat	ccctttatgc	aatcgtcttc	atattgtttt	480
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<210> 26

<211> 917

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (434)

<223> n equals a,t,g, or c

<400> 26

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cagaatgtca	tatagttgga	atcatacaat	tgtgcagact	ttttagattg	ccttctttca	180
cttagtaaca	tttaagtttc	ctccaccctt	tttcatggct	tgatagtcca	tttcttttaa	240
ttgctcaata	ataaatattc	cattatctag	atagaacggg	ttatctacct	agtgaaggac	300
atctcaattg	cctccaagtt	taggcaaata	taaacaaagc	tgctatcagg	atttttcaca	360
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ctacacccat	granccattg	tgcattccatg	agaaaaatcc	agatgtagga	aggtatgtat	480
aattttgcag	aaaagagtat	gtaactggaa	acaccaarga	aaaaaggaaa	tggatctata	540
tatttaggtg	gagatattta	tgtggctgca	gaagaaatat	attattattc	atactagata	600
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cgcttgaacc	caggaggctg	aagttgcagt	gagctgagat	catgccattg	cactccagcc	840
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<210> 27

<211> 662

<212> DNA

<213> Homo sapiens

<400> 27

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<210> 28

<211> 699

<212> DNA

<213> Homo sapiens

<400> 28

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gtctgtttct	gtctctttcc	cattgtccca	aatagccaag	cacaggttca	accaccccaa	420
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tcactcttgt	caccagggct	ggagtgcaat	ggcaggatct	tggctcattg	caacctccac	660
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<210> 29

<211> 1637

<212> DNA

<213> Homo sapiens

<220>

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<222> (726)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (727)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (728)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (899)

<223> n equals a,t,g, or c

<220>
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 <222> (901)
 <223> n equals a,t,g, or c

<400> 29

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agaagccatt	catctgccat	cgcaagacca	aaggarggga	tttgatgttg	gtccactatg	300
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<210> 30
 <211> 2142
 <212> DNA
 <213> Homo sapiens

<400> 30

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 <212> DNA
 <213> Homo sapiens

<400> 31						
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<210> 32

<211> 1631
 <212> DNA
 <213> Homo sapiens

<400> 32

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<210> 33
 <211> 978
 <212> DNA
 <213> Homo sapiens

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 <222> (2)
 <223> n equals a,t,g, or c

<220>
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 <222> (27)
 <223> n equals a,t,g, or c

<400> 33

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cgacttctctg	agctcaggtg	atcttccccc	ctcagtcctcc	tgagtagctg	ggactccagg	420

tgtgtgccac	catgcctggc	taaatTTTTg	tatttttatt	agatacaggg	tctcaccatg	480
ttgcccagac	tggtcttgaa	ctcctggggc	tgcccacctc	agcctcccaa	agtgctagaa	540
ttacaggcat	gtgccacat	atccagccta	ataacattgt	ttttaatgtt	cattaagtca	600
tcccaccctc	tcagtcttgc	agaagcctct	caagagggac	agaatcagtt	gcaaagtacc	660
atttctgacc	ctgagacatg	gatattatTT	gttcatttaa	atgtcacctg	aaaaaccac	720
tcactcaaAT	ggtctgtgaa	gcttgcaaaa	acaggaatgc	ttaccctcct	gggtcctgaa	780
tttttggttc	tcttggaactc	tttgaaattc	ttctttctca	gaaaggagcc	ctctttctat	840
ttcccctcaa	agttgtgact	tgaccctcac	atccctttct	tctccagggc	cccttgataa	900
gattctttta	aaatttcttt	ggagggcatc	ccttttagga	agacggacgc	gtgggtcgac	960
cgggaattcc	ggacggta					978

<210> 34
 <211> 898
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (402)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (452)
 <223> n equals a,t,g, or c

<400> 34						
gaattcggca	cgagattatg	tagtagatgt	cactagaatt	cttgaaattt	gtcttcaagt	60
catggcagta	tttcagtatc	gctccttttg	gattgcctga	gtgataactca	agagtttagac	120
tagttttatc	tgggttcttt	gaagaaccgg	ggacacctca	ctggcttatg	ttgaatttct	180
gcactgcagg	gaccaactat	aaatggtggt	tttggttttt	tacgtgttaa	gagctttaa	240
atgtaattct	tcctatcatt	catgcacaaa	tgttctcaca	caaattgctt	cacagattga	300
taaaactttt	aataattttt	ccctgaagaa	atggtgaact	tttctgcaag	ctgttggaat	360
kggagcgcg	gttgaaagcg	ytgaakggga	ccgtactgta	cngcctawtt	cttttaaaaa	420
aaattawgat	ttcyattttt	watycattta	cngatgactg	aatakgttyca	ggccagaaaa	480
tatccccctt	tttcaaaatg	cagcaatcta	taaacaaaat	acttgccatt	tttctaaatg	540
acaccttttt	ctataatttg	tatagaaaat	taagtgcgaag	ggccaggcac	cgtgtaacgc	600
ctgtaatccc	agcacttttg	gaggccaagg	cgggtggatc	gcctgagggtc	agtagttcaa	660
gaccaccctg	gccaaacatg	cgaaactcca	tctctactaa	aaatacaaaa	caattagcca	720
ggtgtggttg	cagacgcctg	taatcccagc	tacttgggag	gctgaggcat	gagaatcact	780
tgaacccagg	aggcagaggt	ggcagtgagc	tcagatggcg	ccattgcact	ccagcctggg	840
taacaagagt	gaaaactgaa	gctgtctcaa	aaaaaaaaaa	aaaaaaaaaa	aactcggga	898

<210> 35
 <211> 754
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (311)
 <223> n equals a,t,g, or c

<400> 35						
cagcctcatc	tcctgttggc	cccttgatatg	taccctgtgt	ttgagttgta	atgaaccctt	60
gcttgtccat	aatctttctt	ttaactcctg	tgcttctctc	tcataccttg	cagagccttc	120

actttctgct	taaagtggac	cttgacttct	ctttatcttg	ctccatttgc	acctgaaact	180
tgtcctcaac	tgcagtgcta	attccttggg	aatgttttat	aactttgtca	ggcagctaga	240
cactgtaagt	atagaacatg	ctgggaaatc	caaattaaaa	atgacagttg	gcacaaagct	300
gacttctggg	nagggaccaa	ggaaaagtag	ccagagtggc	aggatagctg	cttccatcac	360
ggattgccag	caatgtaaag	cgtagactcc	agaggaacag	tgctaactta	aattaactat	420
gcaggcatca	gtacttctgg	ttctgatggc	ccggggattt	ctaagtagta	gtgagtctca	480
gcattatttg	ttatacagtc	tactgctaga	tgaacaaggc	taagtctaca	gagaaggtaa	540
attatagaaa	ttaggccccg	tctctgctaa	gaatacaaaa	aattagccgg	gcgcgggtgg	600
ggggtcctgt	ggtcccagct	actcgggagg	tgacgcagga	gaatggcgtg	aacccgggag	660
gcggagcttg	cggtgggccg	agatagcgcc	actgcagtct	ggcctgggcg	aaagagcgag	720
actccgtctt	aaaaaaaaaa	aaaaaaaaact	cgta			754

<210> 36
 <211> 699
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (483)
 <223> n equals a,t,g, or c

<400> 36						
gaattcggga	cgagcggcac	gagccacctt	ctcagtcagg	tctatgggta	tgacagttta	60
tctgctgaaa	acccatcctt	gcttctttgt	tgcctaccag	atgcaggtcg	cactcataat	120
cctccttccc	ggactcagga	acagcaagac	tgttactatg	ccattgtccc	ctgccctcct	180
tcccaccctc	cttttttttc	cctctccac	tcccttcttt	caccccttcc	tttctgtttt	240
atgctgcttc	aagtattaat	tttaaaattg	ttctacaaga	atgcgattta	tcagaaggat	300
gtgaaccaag	cagaatttct	tagtatttct	ttgccttagg	gcattcccct	tgtgtggktt	360
aaaatttgtc	ccccattcct	ttttgcctgt	ggaacttatc	cttattcttc	aagagactcc	420
tamtccta	agcactttga	atttaacctc	cctggtagtt	cttctcagcc	aaatttcacc	480
ttinctgaaa	caggattctc	tgttctccat	gtctggctaa	tttttgtatt	ttttgtggag	540
acaaagtctc	actatgttgc	ccaggcaggt	ctcaaaccac	tggccttaag	ccatcctccc	600
accttggcct	cccaagtgtc	gggattataa	gcattgtgcca	ctggaccagg	ccagagaccc	660
tgtctcttta	aaaaaaaaaa	aaaaaaaaaa	aaactcgta			699

<210> 37
 <211> 971
 <212> DNA
 <213> Homo sapiens

<400> 37						
gccaccgagc	cgcagttcct	gggtcgcgcg	gcagctgtga	gcgccgaggg	caaggcgggtg	60
cagaccgcca	tcttgggcgg	cgccatgagc	gtgggtgtcg	cctgcgtgct	cctgaccagg	120
tgcctcaggg	atctggcgca	accccgacgg	ggcgccaaga	tgtcggacca	cagggagagg	180
ctgaggaact	cggcctgcgc	cgtgtctgaa	ggctgcaccc	tgtatctca	ggctttaagg	240
gagaggtctt	cgcccaggac	tttaccgcca	gtgaattcca	attctgtgaa	ttagcaccct	300
acccccatac	cccttcttcc	acccccagac	taaaggaaga	tacttactct	ctgcccctct	360
ccattttatac	caaagaaatc	ataggtgaaa	ccccctaccc	tccccaacgt	taaatgctcg	420
agaggaatct	tcacaaaggc	agggccatgc	acgcaacctg	cacacgcact	tggaggggccc	480
aggtgtctct	ccaccagccc	ccatgcagta	gggactggaa	gatatgtcat	ctgctgggtg	540
tgttatcact	cccaccccct	accccagccc	gtsttccgga	atttctcaac	taaatttsat	600
tattgggcag	gaaggaggtc	atgggttcat	ttcatttttg	ttttttgtgt	ttttaattaa	660
aagaaagggt	acctcagttt	tcactcctta	gacatggatg	tagctacctt	tttttgtatg	720
tctttttttt	tttaagcaat	cgtgttgaat	taggagtata	cttgggtgtg	aaagagtatg	780
aatttgccat	gtgatttgca	aatgggggga	agctactgtg	agcgtgtgtt	tttttaattt	840

acactataga	gtgatttttt	tttcccccaa	cgtaagttt	ttaccttgca	tgtactggag	900
tatttatattc	atctattaaa	atgttatgtt	tctcagaaaa	aaaaaaaaaa	aaaaaaaaaa	960
aaaaaactcg	a					971

<210> 38
 <211> 872
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> n equals a,t,g, or c

<400> 38						
tngcagttct	ccacaccgaa	gaggacggtg	ggcgccaaca	gacaggcgat	taatgcggct	60
cttaccagg	caaccaggac	tacagtatac	attgtggaca	ttcaggacat	agattctgca	120
gctcggggcc	gacctcactc	ctacctcgat	gcctactttg	tcttccccaa	tgggtcagcc	180
ctgaccyctg	atgagctgag	tgtgatgac	cggaatgatc	aggactcgct	gatgcagctg	240
ctgcagctgg	ggctgggtgg	gctgggctcc	caggagagcc	aggagtcaga	cctgtcgaaa	300
cagctcatca	gtgtcatcat	aggattggga	gtggctttgc	tgctggctcct	tgtgatcatg	360
accatggcct	tcgtgtgtgt	gcggaagagc	tacaaccgga	agcttcaagc	tatgaaggct	420
gccaaggagg	ccaggaagac	agcagcaggg	gtgatgccct	cagcccctgc	catcccaggg	480
actaacatgt	acaacactga	gcgagccaac	cccatgctga	acctccccaa	caaagacctg	540
ggcttgaggt	acctctctcc	ctccaatgac	ytggactctg	tcagcgtcaa	ctccctggac	600
gacaactctg	tggatgtgga	caagaacagt	caggaaatca	aggagcacag	gccaccacac	660
acaccaccag	agccagatcc	agagcccctg	agcgtgggtc	tgtaggagc	gcaggcaggc	720
gcaagtggac	agctggaggg	gccatcctac	accaacgctg	gcctggacac	cacggacctg	780
tgacaggggc	ccccactctt	ctggaccctt	tgaagaggcc	ctaccacacc	ctaactgcac	840
ctgtctccct	ggagatgaaa	atatatgacg	ct			872

<210> 39
 <211> 608
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (10)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (16)
 <223> n equals a,t,g, or c

<400> 39						
ccatacgc	an accgntctc	cccgcgcgtt	ggccgattct	tatggcagct	ggcacgacag	60
gtttcccgat	ggaaagcggg	cagtgaagcg	aacgcaatta	atgtgagtta	gctcactcat	120
taggcacccc	ggcttttacac	tttatgcttc	cggctcgat	gtkgtgtgga	attgtgagcg	180
gataacaatt	tcacacagga	aacagctatg	accatgattt	acgccaaagct	cgaatttaac	240
cctcactaaa	gggaacaaaa	gctggagctc	cacgcgggtg	cggccgctct	agaactagt	300
gatcccccg	gctgcaggaa	ttcggcacga	gtttgggtgg	agtttccaag	gtgaaagttt	360
ctgaattgg	caatcagtga	cgcttttgta	aagatggctc	atgtgggtgg	cgctcgcaat	420
gaatgcctga	taagggtctt	tctgtttctt	ttgcactgtg	taagtttgct	cccatcgctt	480
ggggaagtta	atatcagaca	cacacttttt	acggtagaag	agagggtgac	tactccaagg	540

gcactgaaac tctcactgag ccttattggt tctctacacg cgamttgcag aaagcaggag 600
tgctcgta 608

<210> 40
<211> 855
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (850)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (851)
<223> n equals a,t,g, or c

<400> 40
ctgtaatagc acacaactca gaactcttca gcatttgtgt gattccttac ctctggctga 60
taaaactcta atgggttggt gcttactttg tttccatttt ctttggcttt gtgcaatttt 120
tgtgtaactt tacttgtagc tatattttct gtttacagtt ctttttaagg ggaggggtag 180
ggttctaaga tcttggtgtt tattgtagat aaaaattttt tcgtgttgta gaaaagcatg 240
ggttatgcgt ttgactgaaa aagacactgt attatttacc aaaggggtat tgtttttgca 300
tttgtttata aatgcattat tttggtagctg taaatttgga cataatttct gagtttatta 360
ctactggcat tttctttttc cttttttttt ttttttaacc gtaagtgcac gatgcagggtg 420
cataggcccc agaccaaact agaccaccag catgttcatg tccagacctc ggcagtggcg 480
tgcactgctt gtgcacctca gtctctccag tgttggtttg tttgtttttt aattcagcat 540
cctgctggtt ttactttcca agcaagatct gttgcgactc ccaaagcgt tttaatgagc 600
tcatccttat ttgcctttct tcttacgtat tttgtgtatt agattgtgca ggagatattc 660
tagaaggcat taatgggttt cattcaaaac gatgtggttt gtccaagtta ttttctgtct 720
ttattactga gacggattaa tctccttatt tttttcttga tgatttgaag ttgtaacagt 780
tgtccagcta ttgcttaata aaattttgca gatcaaaaaa aaaaaaaaaa amctcggggg 840
gggccccggn nccca 855

<210> 41
<211> 1042
<212> DNA
<213> Homo sapiens

<400> 41
acggcccgta attcccggtt cgayccacgc gkccgtgctt cctagaaggt cgtgtcacgt 60
ggaacctctt aatctcagca tccggagctc caggaaggga aaatttcaag tcagatagaa 120
ttctatatat accatttctt tggaaccttc agccctcaag attccaacat catgacctca 180
gtttcaacac agttgtcctt agtcctcatg tcaactgctt tgggtgctgcc tgttggtgaa 240
gcagtagaag ccggtgatgc aatcgccctt ttggttaggtg tgggtctcag cattacaggc 300
atgtgtgcct gcttgggggt atatgcacga aaaagaaatg gacagatgtg actttgaaag 360
gcctactgag tcaaacctca ccctgaaaac ctttgcgctt tagaggctaa acctgagmtt 420
tggtgtgtga aaggttccaa gaatcagtaa ataaggagat ttcacatttt tcattgtttc 480
catgaaatgg caacaaacat acatttataa attgaaaaaa aaatgttttc tttacaacaa 540
ataatgcaca gaaaaatgca gcctataatt tgctagttag gtagtcaaag aagtaagatg 600
gctgaaattt acataagtaa tatttcataa tcttagaatt ctctcaaagc atgtgaaata 660
ggaagaagga agttcttgcc cagaatctta ggaaatcacc actgttcggt tataatcact 720
gcctcctgaa tcgttgagga gtctttttaa ttagattttt gttttgttgt ctcccaagtt 780
aatattatat ttagatatca gagagtcagg yaaaaaggaa aacttttatc tctagggaaa 840
aaacatttag aaaaatgtat tcagtgtatc taatactgaa atgcggaaaa aaatttaagt 900

ttaaaaaaaa	actatagaca	ttgacatgga	aaagagattt	aatgttttga	aaaaaaactt	960
tatattaact	gagtaacatc	ctcctgatga	gaagtactat	attaaatata	aacccattat	1020
gttataagtt	aaaaaaaaaa	tt				1042

<210> 42
 <211> 702
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (515)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (614)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (673)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (677)
 <223> n equals a,t,g, or c

<400> 42						
gggacaatga	actccttctg	gtctaagtta	ttggtgctgc	ccctgctggc	tccgctgtcc	60
atggcccgag	cctctgcctg	tcagagatgg	tagagccacc	aggacatgga	gtcattgctg	120
acacagggaa	acatgagatg	tcttaggttt	ggtgtatgtg	aaacatgcat	gagaaataga	180
ggccaaaagt	tccactgtgg	agcgagaca	gaatggctcg	aatgctcttg	cagttactac	240
gtcagtagtt	tgtcatctaa	tatatattat	acatctataa	cctatgtatt	taccttattg	300
tgataatact	gttttgtttt	gttttttttc	taattttgct	ttgtgcaaag	ccaaatccct	360
ttcagcagca	ttgagctaaa	aaaaaaaaaa	agtgcattgt	tagggctggg	cacggtggct	420
catgcctata	atctcagtac	ttcgggaggg	cgaggcaggg	ggatcacaag	gtcaggagtt	480
cgagaccagc	ctggccaata	tggtgaaatc	acgtntctac	taaaaataca	aaaattagct	540
gggcatgggtg	gtgggtgcct	atagtcctag	ctatgcggga	ggctgaggga	ggaaaaaccg	600
cttgaaccct	ggangcggaa	attcccagtt	gagccaagat	cgcgccactg	cactcccagc	660
ctggttgaca	gancganact	cttgtctcca	acaaccagca	ac		702

<210> 43
 <211> 642
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (593)
 <223> n equals a,t,g, or c

<400> 43						
aattcggcac	gagcggcggg	gtcgactgac	ggtaacgggg	cagagaggct	gttcgcagag	60
ctgcggaaga	tgaatgccag	aggacttgga	tctgagctaa	aggacagtat	tccagttact	120

gaacttttcag	caagtggacc	ttttgaaagt	catgatcttc	ttcggaaagg	tttttcttgt	180
gtgaaaaatg	aacttttgcc	tagtcatccc	cttgaattat	cagaaaaaaa	tttccagctc	240
aaccaagata	aaatgaattt	ttccacactg	agaaacattc	agggtctatt	tgctccgcta	300
aaattacaga	tggaattcaa	ggcagtgccg	cagggttcagc	gtcttccatt	tctttcaagc	360
tcaaattcttt	cactggatgt	tttgaggggt	aatgatgaga	ctattggatt	tgaggatatt	420
cttaatgatc	catcacaaa	cgaagtcag	ggagagccac	acttgatggg	ggaatataaa	480
cttggtttac	tgtaatagt	tgctgttcat	ggaaaccgag	ggctgcatct	tgtttatagt	540
catctttgta	ctgtaatttg	atgtacacaa	cattaaaagt	actgacacct	ganaaaaaaaa	600
aaaaaaaaaa	aaaaaaaaaa	aaagcggccg	ccgaattaag	cc		642

<210> 44
 <211> 1219
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (25)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (26)
 <223> n equals a,t,g, or c

<400> 44						
aattccccggg	tcgacccacg	cgtcnnctaa	aatccccaaa	ctgacaggta	aatgtagccc	60
tcagagctca	gcccgaaggca	gaatctaaat	cacactatct	tcgagatcat	gtataaaaa	120
aaaaaaaaaga	agtcatgctg	tgtggccaat	tataatcttt	ttcaaagact	ttgtcacaaa	180
actgtctata	ttagacattt	tggagggacc	aggaaatgta	agacacccaa	tcctccakct	240
cttcagtgtg	cctgatgtca	cctcatgatt	tgctgttact	tttttaactc	ctgcgccaa	300
gacagtgggt	tctgtgtcca	cctttgtgct	ttgcgaggcc	gagcccaggc	atctgctcgc	360
ctgccacggc	tgaccagaga	aggtgcttca	ggagctctgc	cttagacgac	gtgttacagt	420
atgaacacac	agcagaggca	ccctcgtatg	ttttgaaagt	tgcccttctga	aagggcacag	480
ttttaaggaa	aagaaaaaga	atgtaaaact	atactgaccc	gttttccagt	ttaaagggtc	540
gtgagaaaact	ggctgggtcca	atgggattta	cagcaacatt	ttccattgct	gaagttaggt	600
agcagctctc	ttctgtcagc	tgaatgttaa	ggatggggaa	aaagaatgcc	tttaagtgtg	660
ctcttaatcg	tatggaagct	tgagctatgt	gttggaagt	ccctgggttt	aatccataca	720
caaagacggg	acataatcct	acaggtttta	atgtacataa	aaatatagtt	tggaattctt	780
tgctctactg	tttacattgc	agattgctat	aattttcaagg	agttagatta	taaataaaat	840
gatgcacttt	aggatgtttc	ctatttttga	aatctgaaca	tgaatcattc	acatgaccaa	900
aaattgtgtt	tttttaaaaa	tacatgtcta	gtctgtcctt	taatagctct	cttaaataag	960
ctatgatatt	aatcagatca	ttaccagtta	gcttttaaa	cacatttggt	taagactatg	1020
tttttgga	aatacgtctac	agaatttttt	tttaagctac	aaataaatga	gatgctacta	1080
attgttttgg	aatctgttgt	ttctgccaaa	ggtaaattaa	ctaaagattt	attcaggaat	1140
ccccatttga	atttgtatga	ttcaataaaa	gaaaacacca	agtaagttat	ataaaaataaa	1200
aaaaaaaaaa	aaaactcga					1219

<210> 45
 <211> 437
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (422)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (423)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (427)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (437)

<223> n equals a,t,g, or c

<400> 45

gaattcggca	cgagggcggc	accaggggagc	ctgggcgccc	ggggctccgc	cgcgacccca	60
tcgggtagac	cacagaagct	ccgggaccct	tccggcacct	ctggacagcc	caggatgctg	120
ttggccaccc	tctcctcct	cctccttgga	ggcgctctgg	cccatccaga	ccggattatt	180
tttccaaatc	atgcttgtga	ggacccccca	gcagtgtctt	tagaagtgca	gggcacctta	240
cagaggcccc	tggtccggga	cagccgcacc	tcccctgcca	actgcacctg	gtcacaaaa	300
agagtgaac	aaatgcttct	attccatagc	tacggcattg	ctcagtaagt	tgagggtcaaa	360
aataaaggaa	tcatacatct	caaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	420
annaaanaaa	aaaaaan					437

<210> 46

<211> 533

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (305)

<223> n equals a,t,g, or c

<400> 46

gaattcggca	cgaggaccct	atcttacaaa	aaagaagaag	aagaagaaaa	ccatgacagg	60
tgtctttaag	ctgcccttgc	tggtctgggt	tcatgaagca	tctgtgggag	gttgcccata	120
tgtaaaatta	gttgagtttg	aagaaatggt	aacgttatat	ggtattcttt	taattttggt	180
ttaaaaataa	tttttctcat	tcaaatcctg	aattagaagt	tgtttggtat	aaatattgaa	240
aattgttgag	gggagaattt	attcaaagtt	taatcatttg	ctttatctat	gttatactta	300
gctantagtt	actggaagtg	tcaagtttta	tttttagatc	ttaactagag	tctaaagtaa	360
ttactaaaag	ctagttttca	aataatatgt	aagagtaaag	tcctgagtta	aaagatttag	420
catactgaat	taacttagtt	gactgatgct	gtacttacat	gggcctccta	tttcttggtg	480
ccaagatagc	atcaacagaa	aaaaaamaaa	aaaaaactcg	agggggggcc	cgg	533

<210> 47

<211> 1849

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (222)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1300)

<223> n equals a,t,g, or c

<400> 47

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gggaaaaggc	caaaggacaa	gggcctcttc	tcccattggg	tttctgtgg	gcagaagggc	180
tgaggaagat	ggcccagccc	gtgggggctg	ctgggtcacc	ancagygggt	aggggtgcaat	240
ctgggtgtgtg	ttccagcagt	gagacggtgt	tattgtgaag	gtggcattca	tctgcggacc	300
aaaaccacgc	catcggggaa	gggtcagggc	ttctgtggaa	cttggaacgt	gccaggacca	360
cctgcaaaaag	ccagggtgcg	ttgatcattc	tcagatcatt	gattggcctc	cacttgggta	420
tgtgaattat	tcatgtccca	gaagaccaa	aagtgtctctg	gttctgagat	gagtatttta	480
ttcgtgtttc	gtttccgaaa	cacttagcaa	agaaggtcac	agtgatgtgg	agtcgccgca	540
cccattctttg	aagatagcca	gtgtccctgg	atgagggtgat	gatttcccgt	cccaaggact	600
ctgtgaagtg	tagagtacag	tttgttgggg	tccaaaagac	accatctcta	ccccacccaa	660
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gacagccgtt	ttcagagcct	ccagcatttg	cacaccacta	ctcaccctct	ctgctgctgg	1080
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gaaaaaaaaa	aagcttatgt	ttcttgtcaa	atgcagaaat	gttccttccg	ccactcactg	1560
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ccgccacctg	tactcacctt	cacgtctttt	gaagaaaaaa	aaaaaaatca	ccttgtgtgt	1740
tgtagctcat	ttgtttcaag	agagaatcaa	cagatcatat	tcagtgtctt	gaataaattg	1800
ctctattttg	atattagaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa		1849

<210> 48

<211> 926

<212> DNA

<213> Homo sapiens

<400> 48

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atgggagcat	cttggtctgag	aggaaagaac	ccctccgatg	cctaataaag	ttctctagcc	120
cacatcttct	ggaagcattg	aaatccttag	caccagcggg	tattgcagat	gtccactttt	180
ctccactgct	cacttgcata	cccaacaaga	gaatgaatta	ttttaaaatt	agagataaat	240
aagacgtgcg	tggtttctta	agcacagctc	ctccttcttg	atattgcaca	tgactttcag	300
ttcatggcta	gctgtatagc	ttccgtctgt	aaacttgat	tttcaagaat	ccttgggtatt	360
gaatttttag	aaatgtcac	ataattgttg	ggactgattc	attcctccac	gatatgcctc	420
ctctctctga	tatcctgcta	actgtagccg	ttgtggcatt	tgagatgaca	ggacatatat	480
atatatggcc	ccacacttga	ccttgagtgc	ctgaatgctc	tgaaatcaag	catatggcac	540
agcgctcaag	acttttgggt	ttgtgtcctt	ttttctatgg	ctgtctcttc	tcaattctgg	600
agaggtctgg	ttccagtggc	tggtttcyar	ggattgattc	ttaagctctg	gatcacagag	660

agaagcaaca	aggaactata	ctcaactcaa	aacttttttag	gagaatcatg	aaattggtct	720
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gtcagttata	taaaatagtg	ttcttattgt	aaatatgata	cttctcataa	tctattttat	840
catgtgtata	acattcaaac	tgacaaatat	attgacttat	gaataaagggt	gtcaaaaaaac	900
aaaaaaaaaa	aaaaaaaaaa	ctcgtat				926

<210> 49

<211> 1593

<212> DNA

<213> Homo sapiens

<400> 49

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cctgactctg	cagccgaacc	ggcacgggtt	cgtggggacc	caggcttgca	aagtgcagggt	120
cattttctct	ttctttctcc	ctcttgagtc	cttctgagat	gatggctctg	ggcgcagcgg	180
gagctacccg	ggcttttgct	gcgatggtag	cggcggtctt	cggcgccac	cctctgctgg	240
gagtgcgcgc	caccttgaac	tcggttctca	attccaacgc	tatcaagaac	ctgccccac	300
cgctggggcg	cgctgcgggg	caccaggtct	ctgcagtcag	cgccgcgcgc	ggaatcctgt	360
acccggggcg	gaataagtac	cagaccattg	acaactacca	gccgtacccg	tgcgcagagg	420
acgaggagtg	cggcactgat	gagtactgcg	ctagtcccac	ccgcggaggg	gacgcaggcg	480
tgcaaatctg	tctgcctg	aggaagcgcc	gaaaacgctg	catgcktcam	gctatgtgct	540
gccccgggaa	ttactgcaaa	aatggaatat	gtgtgtcttc	tgatcaaaat	catttccgag	600
gagaaattga	ggaaaccatc	actgaaagct	ttggtaatga	tcatagcacc	ttggatgggt	660
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tttgtctccg	gtcatcagac	tgtgcctcag	gattgtgttg	tgctagacac	ttctgggtcca	780
agatctgtaa	acctgtcctg	aaagaaggct	aagtgtgtac	caagcatagg	agaaaaggct	840
ctcatggact	agaaatattc	cagcgttggt	actgtggaga	aggctctgtc	tgccggatac	900
agaaagatca	ccatcaagcc	agtaattctt	ctaggcttca	cacttgtcag	agacactaaa	960
ccagctatcc	aaatgcagtg	aactcctttt	atataataga	tgctatgaaa	accttttatg	1020
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taacaccttc	caaaaacctg	gagtgtgaag	gctttgtttc	tttatggaac	tcccctgtga	1140
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acttttaatt	atttttctaa	aggtgctgca	ctgcctatct	ttcctcttgt	tatgtaaatt	1260
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atttccagctt	atagttctta	aaagcataac	cctttacccc	atttaattct	agagtctaga	1380
acgcaaggat	ctcttggaat	gacaaatgat	aggtaacctaa	aatgtaacat	gaaaataacta	1440
gcttattttt	tgaaatgtac	tatcttaatg	cttaaatatt	atttcccttt	aggctgtgat	1500
agtttttgaa	ataaaattta	acatttaata	tcaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1560
ctcgagggtcg	acggtatcga	taagcttgat	atc			1593

<210> 50

<211> 978

<212> DNA

<213> Homo sapiens

<400> 50

gaattcggca	cgagatgagt	ttggccacgt	gatgcaccag	ctctgctccc	agggtgggtgc	60
gggcccgggc	aggggcaggg	gcaggggcag	gggcaggggc	tgctgtgggt	cagcgaggcc	120
caagcctggg	gcttcggctt	ccggctctct	ctgcaccgct	ccggtggctc	cttcatccaa	180
tgccacccaa	agatggtgac	tcctgtcat	gcccggtgct	tggggctgcc	ccagcaaaac	240
accacagacc	agggtctaca	caagggtcgt	gtatttcctc	atggctcctag	aggctggagt	300
cggagggtcac	agtgtcagca	gggttggtct	cctcgargtc	cctccttggc	ttgtggccgc	360
caacaacttc	ccgcactctc	tgtggtcgct	cttctgtgtg	gggtcccaty	tygtcttctt	420
acrggacccc	agtctgccgg	atccggggcc	gcccacaac	ctcacttgac	ctagtacact	480
ccttagacat	ctgtctctaa	gtagtcacat	ctgggattac	ggcgtgagcc	atgttcccgc	540
ggaattttctt	ttttatagta	ttggataaag	tttgggtgtt	ttacagagga	gaagcaatgg	600

gtcttagctc	tttctctatt	atgttatcat	cctccctttt	ttgtacaata	tgttgtttac	660
ctgaaaggaa	ggtttctatt	cgttgggtgt	ggacctggac	aaagtccaag	tctgtggaac	720
ttaaaacctt	gaaggctctgt	cataggactc	tggacaatct	cacaccttag	ctattcccag	780
ggaaccccag	ggggcaactg	acattgctcc	aagatgttct	cctgatgtag	cttgagatat	840
aaaggaaaag	ccctgcacag	gtggctgttt	cttgtctgtt	atgtcagagg	aacagtcctg	900
ttcagaaaag	ggctcttctg	agcagaaatg	gctaataaac	tttgtgctga	tctggaaaaa	960
aaaaaaaaaa	aaactcga					978

<210> 51
 <211> 433
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (424)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (430)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (431)
 <223> n equals a,t,g, or c

<400> 51						
cgggcgcctct	agaactagtg	gatcccccg	gctgcaggaa	ttcggcacga	ggcgggaagg	60
cttattccaa	ggtaagagg	gctgtgtgaa	ggggcagtg	gatggaatg	gggtgtggcat	120
gggacaggca	caagggaagc	ctccagcccc	ttttctgcca	caagcaagag	gcactcagcc	180
ctacctgaga	tgtgttattt	tttagaaata	tctttattga	tggcttttgc	actcaatata	240
aaggcagcat	atgggtgttg	caatataaat	ggtacagaag	tccacagagc	aaaagggccca	300
gtttctgtcc	cctttcctct	ctccaggcct	ctttctggga	ccccattatt	ggatagatta	360
agacctttcc	agaccttgta	aaaaaaaaaa	aaaaaaactc	gggggggggsc	ccggaaacca	420
attngccccc	nna					433

<210> 52
 <211> 861
 <212> DNA
 <213> Homo sapiens

<400> 52						
gaattcggca	cgagcctgag	tcaacttgat	atccaagctt	tttacttcaa	ttatctggca	60
agattacata	gactgtcaaa	gtttgtgaaa	gtttagcaag	aaaactgtct	tactcacaga	120
accacaggac	taactgactg	aaccacactc	caccatttgc	ccctatttcc	aggcggttatg	180
gtcacccctgt	agtttctaata	ctgtatagat	gtgtagagca	tgccctcttc	ctcttccttt	240
cccctccctg	ttttcctttc	ctcttgccct	ttcttaatgt	ctgtytctat	tggcttcttg	300
atcttgggtct	ttaatgttca	tccttaagct	tgcttctctc	ttcagactac	tgattcagcc	360
tcttgcattt	tctttcaact	tgggccaaaa	aaacaggcaa	cattttcttc	ctccactacc	420
tcatcatcat	ccaatttatt	ccttttagttt	atattaccac	aactctccta	aacgtcccaa	480
gtctattatt	aagtctaaca	acttagcttc	gaacctcaat	ccaagcatct	gacaacacac	540
tgaatgtgc	aagcaagagt	cccwatggcc	gggtgcagtg	gctcatgcct	gtaatcccag	600
cactttggga	ggccaagggtg	ggatcacctg	aggtcgggag	ttcgggacca	gcctggccag	660
tatggtgaag	ccatgtctmw	actaaaaata	caaaatttagc	cggacattgt	ggtgcacgtc	720

tgatcatccca	gcaaggcagg	cgaatcgctt	gaacccggga	ggcggagggtt	gcggtgagcc	780
gggatcgtgc	cattgcactc	cagcctggtc	aacagagcga	gactccgcct	cattaaaaaa	840
aaaaaaaaaa	aaaactcgta	g				861

<210> 53
 <211> 510
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (380)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (396)
 <223> n equals a,t,g, or c

<400> 53						
gatcccccg	gctgcaggaa	ttccgcacga	gtgaaaaccg	cctccaccaa	cacccccgtt	60
tgcctacacc	accccccttt	tacttagtat	gtttatTTTT	tgtgtgtctc	ttgccttcct	120
cccacgtttt	atttcccctc	agagctgtga	atgggcagg	ctgtctctgg	tttggcatca	180
ctgagttttt	cccatgcatt	ggccccaggg	ctgctaggat	gtgagacaaa	tctccctaca	240
atgggcttgc	tcccattgtc	tgtacagttt	aatagatgct	ggcatgtcgg	aggttaccca	300
tgagtcaaaa	tccgctctcc	atgcttactc	ttgacacccc	attgaagcca	ctcatttgtt	360
gtgctgtctg	gtgtgaagtn	ccagctccgt	gtggtncctg	tgcttgtact	gyccctgctt	420
tgcagttcct	ttgcacttac	tcatcgagt	ctgttttgaa	atgctgacat	tatataaacg	480
taaaagaaaa	aaaaaaaaaa	aaaactcgta				510

<210> 54
 <211> 309
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (301)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (305)
 <223> n equals a,t,g, or c

<400> 54						
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aagagattgt	tcttgtgggg	agaactgctt	ctacaggatc	tagctttgat	tttgtatctt	120
tcaatctttt	taaaatcaac	tttaacgaat	ttaaacctat	tttaagtgt	caagtaataa	180
gtttgacaat	tgtatgtgac	ttctaccaca	ataaaatata	gaacattttt	atcattctat	240
aaaaaaaaaa	aaaaaaaaaa	tcgagggggg	gcccgttacc	caattcgccc	tatagttagt	300
ngtancgtc						309

<210> 55
 <211> 1585

<212> DNA

<213> Homo sapiens

<400> 55

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ttgttttaat	gggttagaaa	atgtttacaa	tcttggtctt	atatgatcac	caatggaata	120
gtaacttcca	ggtttatatc	aatatgagct	gactttaact	gagttgtttg	ggatagggaa	180
gaagcagtc	ctctacagta	tacaactact	gcttgccagc	tggatcaaaa	taatcatgtt	240
ttatgaaaat	atctccctta	agcagtgtta	aggttggttt	gcagtgtgta	agtggcacat	300
tgaactggaa	gttttcttga	aagctgcttc	atctattaag	aagcaatttt	caaattgtag	360
cgaattatat	tatccctctt	tttaaagaaa	cagtcgttat	atgctgatgt	ttcttaaaat	420
aactaaaatg	tkcctcttaa	tgtgatttta	aatggagtta	tttgtaggtc	ctttcttagt	480
agtaaagaat	cttctagagg	gaaacatttg	tgcttttagg	gataatcttc	cttgtgcctc	540
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caaatttact	tttaaataat	attttagata	cgggtgtaaca	tgtgcaattc	agaataattt	660
tataacaggt	catgaaaaac	ataacttttag	ttaggattca	caatatattgt	wctccacata	720
atgagagaat	gaatgagcct	ttggagatac	tgatataagg	caattatttt	ttgcaatgtt	780
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atcttgtatt	actttttgat	gtaaagcgac	taatatttac	actatgccat	atttttttta	900
attatagtgt	taaattatga	aagatccttg	aattttctac	agatctacaa	ctactaatgt	960
aacagacaag	ggcaatcttg	gtattttaat	ctgagcatgg	cagttctacc	ataaaaagta	1020
ctctattttt	ctaatttcta	ggatttttaa	aataacattt	ctgtaagtct	gacatactaa	1080
tagtcactca	agcagtacca	tttatttttag	tttgcatata	ttttcactgt	ttttaattta	1140
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tcaaagatgc	ataacagcta	ttatctaggg	gaccmccaaa	tgtgatttca	aaattttgtt	1260
aactattaca	aatgtaatcc	ttatatagaa	attttaattt	tgtaaagtag	tgtataatat	1320
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tttctactgt	ttattcctgt	taaaaaaaaa	aaaaagtcac	ttgtaacca	tcagagaccat	1500
tgtttgatct	atgctaactt	atcaacttgg	ctattcaata	aagttaattg	aaaagaaaaa	1560
aaaaaaaaaa	aaaaaaaaaa	ctcga				1585

<210> 56

<211> 874

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (468)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (501)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (546)

<223> n equals a,t,g, or c

<400> 56

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ctgccccagc	agagcccggc	aggagcccca	acaggaagcc	agcgcgcat	ggctgccacc	120
gacttcgtgc	aggagatgcg	cgccgtgggc	gagaggctgc	tgctcaagct	gcagagactg	180
ccccaggctg	agcccgtgga	gatcgtggcc	ttctcagtca	tcctcctttt	cacagctact	240

gttctgctgt	tgctgctgat	agcctgcage	tgtgctgca	ctcactgctg	ctgccctgag	300
cggagaggca	ggaaggtcca	ggtgcagccg	acaccaccat	gacggacggg	cgatggctga	360
ggagaagctg	gagaggagat	ggccaatgcc	atgacacagg	ccatcagcct	ggccctgcag	420
cccttaccct	tcaagaccag	gctcccctgg	ccccagctct	ggcccagncc	caggtacctg	480
gacactgaca	acttgagccc	ntaccaagga	aacaagggct	ggtatagggtg	caaacctctc	540
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caaagaggag	caaggcaatc	agaggggctt	tgtgcaatag	cttctgcctc	cgagctcccg	780
ccagagcgtg	agcatgtcag	tattctagtc	cagtatttgc	cagtttccaa	gtaaaagctt	840
ttgtgttaaa	aaaaaaaaaa	aaaaaaaaact	cgta			874

<210> 57
 <211> 1169
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (9)
 <223> n equals a,t,g, or c

<400> 57						
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atcccaaccc	catttataaa	taaaaattgt	aaagcactcc	attcaataaa	agcacataag	120
tccccctcaa	taattagtat	gacaattcac	gatacagctc	ttactctggg	agagtttatt	180
ttacccttta	ttccaaaagg	cacaaaagtc	tctgaggcct	cagatattaa	ccccactgca	240
tgtaaatgac	acaccactga	ggtgcagctc	aatgtaatta	ttaaagctta	taacacactt	300
ccccagaat	ttatagattc	tttctataaa	taataattta	aaaaatactg	caccttaaga	360
ccaatacagg	cttaacaaaa	gacctgaaat	ttctgcaagg	gcagttttgt	ttcttgatag	420
aagtacaact	tttgaaagtc	tattcccagc	aaaagaaaac	ctagaccag	cttgggccaaa	480
gaaacaaaat	aaaacaagtg	atttctaaca	cgctaaaaga	gtacattttc	atcagctcca	540
aagaaagcag	tcctgggtcat	tcagaaggct	cctatgatcc	caccagctctg	cagtcattag	600
aaatatatgc	tttacaggcc	acaggctgct	ctggatttgg	tttcagacac	cagtgaccag	660
aagaagccag	ttttgcgtgt	gaggggtgtg	ggcccccgct	gccttggggc	tgctcaccgg	720
ggtggatgga	ccccgcgagg	gtcacagcct	gctgtcacgt	ctggactggt	ggcctcttct	780
gcatctgggc	tggtgggctc	tctgtctctc	tgccctcag	tcacgtcatt	gtctggctgt	840
ccggtgctgg	ctgcactctc	atttgtgagg	ataaccctt	ccttcttctt	ttctcccaat	900
acctccagcc	ccatcatcct	gagataatga	agccgttcat	tcttgggcac	aaaagttcga	960
atggaggcct	ttccccgcca	tccgcataag	acgatgggac	actgcagagc	gtctggattc	1020
gcagaatctg	gttcatactt	cagcacgatg	cttccctttg	ccaggtcctt	tgcttgactg	1080
taggtctcac	tgctgagttt	tctaaaaaag	ggattttcct	gggtcaacag	tatcttaaca	1140
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<210> 58
 <211> 1066
 <212> DNA
 <213> Homo sapiens

<400> 58
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gaatcctgaa	tggtttataa	agtgaactag	ctggcttaat	gcagccagcg	ttctgggcag	120
cagaacatat	tcattcttac	tgtaaattct	atgtgctgct	tccaaagggtg	atgattttca	180
agcagacatg	ttctatatgg	tctgtgtttt	aggatctggt	gcccagcctc	tatcagagct	240
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caatacgagg	tactttctaa	actattaagg	gaggggttgt	aycctcatgt	tgagataaga	720
tgatggctcg	ttaaattttg	caattttttt	tggcctgcag	ggatattttg	tgtttatgtg	780
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aataagtatg	cagtacactg	taatggcaac	atacatgggt	gctttataaa	aacagtttcc	900
tcagtatgag	aaattttaca	aagaacagtg	gaaaaacttt	gtgtttttta	ctcttgggtc	960
tcctattttt	taaaaattgc	tatttgggat	acaattatta	tgtgtcaatt	aaaactaaaa	1020
taaaactttt	aaaaaaraaa	aaaaaaaaaa	aaaaaaaaaa	ctcgta		1066

<210> 59
 <211> 772
 <212> DNA
 <213> Homo sapiens

<400> 59						
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cagtcattca	atagtggcag	cttaaaaaaa	ttattctacg	attacccttg	cttcagtgat	180
tcttcttggt	gttattgaag	ggtgagatct	cggtggggat	ctcccagggtg	tttccataat	240
cccagcgatc	accccaggga	gaacctctct	ccttaggctg	ctagaggaca	tgtgccatag	300
gaccagatag	gagggagggg	cagcgggtgg	aatgcgtttt	cagagctacc	tttggccaag	360
ccgtatcctt	gtggggacct	attgcattgc	tgctgaagtg	ctgttcccat	cagccctggc	420
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cctgaccacc	cagctgggat	ggatatagag	acaggtgtca	tgttgcagaa	agcctgcctc	720
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<210> 60
 <211> 1198
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1189)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1191)
 <223> n equals a,t,g, or c

<400> 60						
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ttgtgaagag	ttggcagcag	attacatctc	aagaacttgc	agagagagga	aggtagatgg	180
acaatcctaa	attgtaagat	gttacaaaaa	acagtgaagt	aagagtactc	ctgaagacta	240
aaatagagag	gctgggggtt	gagccatttt	actgagtagc	ttagctggaa	cctgatatac	300
gaagtagcct	ttaacaaaaa	gcctcttgcc	aattgtatgg	tactaacaac	tagagtactg	360
aagtgttaagt	tgaaaccaag	ttgcagtggg	aaatcaaagg	tgaggtagct	tatttgaaac	420
cagcaaatga	gacaggttgg	acagttttta	aatctcttct	aacaaagaaa	ctgcacggta	480
gcaaggacta	gcggttctca	aagcccttct	ttttcagtgt	tctcattcac	cttggcacc	540
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ggaacttaca	aactgacaat	ctctcctctg	tatttgtgtt	catagtggct	gggagttaa	660
ttatatgcac	aaaagttagg	agccacttgt	ttctgcacag	actgtaggag	caagatgagg	720
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ccctttaaac	aagaagagat	ggctcacatt	ttccatatat	atctcaatga	atgtactgta	900
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ttgtgtaaaa	actgatgtaa	tatgtgtatg	aaacactgta	tgtattatct	gtatatagtg	1080
tgacaaaatc	atctttcttt	ctttcttttg	gatgtattaa	taaactctgc	tgtgaagtaa	1140
aaaaaaaaaa	aaaaaaactc	gagggggggc	ccggtaccca	ataacctnt	natgatct	1198

<210> 61
 <211> 558
 <212> DNA
 <213> Homo sapiens

<400> 61						
ctgcaggaat	tcagcacgag	ytggcatgtg	acaaccagg	gctgcctgaa	aatggatacc	60
aaatcctgta	caagcgactc	tacctgccag	gagagtcct	caccttcag	tgctacgaag	120
gctttgagct	catgggtgaa	gtgaccatcc	gctgcctcct	gggacagcca	tcccactgga	180
acggggccct	gcccgtgtgt	aaagtagcag	aagcggcagc	agagacgtcg	ctggaagggg	240
ggaacatggc	cctggctatc	ttcatcccg	tcctcatcat	ctccttactg	ctgggaggag	300
cctacattta	catcacaaga	tgctgctact	attccaacct	ccgcctgcct	ctgatgtact	360
cccaccctta	cagccagatc	accgtggaaa	ccgagtttga	caacccccatt	tacgagacag	420
gggaaaccag	agagtatgag	gtttctatct	aaagagagct	acacttgaga	aggggacttg	480
tgaactcaac	cacaatctcc	tcgagggggg	gccggtaccc	aattcgscct	atagtgaatc	540
gtattacaat	taatgggc					558

<210> 62
 <211> 616
 <212> DNA
 <213> Homo sapiens

<400> 62						
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tttcagccat	caaccagctg	caaaacaaga	tgggcttcc	tttctacat	attcttccaa	180
gcatcataaa	tactcggctc	gtcctccaac	ccacatcctg	caggatgcag	ccagagcaac	240
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gttggagggtc	ggttgggggt	ggctgatcgc	tgcttgggtc	actcctgcac	tggctggggc	360
ttggctgcat	ggttaaagctg	ttccctgtct	catcctgttg	ggataaacag	agtatcctag	420
gcatattttc	tccagagcag	tggcagacac	aaagggtcaa	cagaaacct	caaggttttg	480
tcatgcctac	tcttgcaact	agcacattgt	catttcagcc	tcatgctatt	gaccaaagca	540
agtcacttga	ccaaattcaa	agccacaaaa	ctcgtgccga	attcgatata	aagcttatcg	600
ataccgtcga	cctcga					616

<210> 63

<211> 811
 <212> DNA
 <213> Homo sapiens

<400> 63

gaattcggca	cgaggagctt	ccatcttttc	tgatgtgagt	ggtgtcagga	atgactatgg	60
tggtggtagt	ggcagtggcg	atggttttct	ggaggctgaa	aggttaaagt	cccaatgcag	120
aagtgatgtc	agggctagt	ggtggcggt	gcagggtcag	ttaaagtcagg	ttcagatgct	180
tcaatgttga	ctcccttctc	gtgttagtcc	tacagcatca	tttcagactt	tgttcttggt	240
gcttagctcc	aagcctcttc	ctcctgctgt	cctgtcaggt	tgtgtccact	atgatggagc	300
aagaccctgt	catctatgat	gatgatgacg	acttgccctaa	ttatttttct	gtttaagcta	360
gccatagtgg	atcctgttat	ttgtgcctaa	gagctcttac	tgacaaagaa	cgtgttaccg	420
gaagtgggat	gctacaagta	acaacactaa	aagtagaatt	gactaagtgc	agcaggcagg	480
cctttgagca	aggaggggac	acacattaca	ggctgggaaag	ctggtgactc	ttgtaatgca	540
gtggcaaaat	tttgcttcaa	ctactatata	caataacttga	agatgcacac	tgcaagctga	600
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gacttcttgc	tctttcagca	gtcttgatag	agcagctata	cccacaccag	agtcctccag	720
ctgacaagag	aggtaaggag	agaaaactgct	ttgccaggag	gggccctctg	ctgcagctgg	780
aggtccaagt	tgaccgagag	cccaaatttt	g			811

<210> 64
 <211> 993
 <212> DNA
 <213> Homo sapiens

<220>

<221> SITE

<222> (370)

<223> n equals a,t,g, or c

<400> 64

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ctacctatgc	agcattcaga	tgttctccta	tttctgggtct	gctggaaagc	catgggatcc	120
aaaaagtctc	catcacattt	ttscaccag	gtagggggga	ttatscccag	ttttgggatg	180
ttgaatgtca	ccctcttaag	gagcctcaca	tgaaacacac	gttgagattc	caactctctg	240
gacaaagcat	cgaagcagaa	aatgagcctg	aaaacgcattg	cctttccacg	gattccctca	300
ttaaaataga	tcatttagtt	aagccccgaa	gacaagctgt	gtcagargct	tctgtctgca	360
tacctgacan	gcagcttgat	gtgactgctc	gtggagttaa	tgccccagag	gatgtgtaca	420
ggttcctgcc	gactagtgtg	ggggaatcac	ggacacttaa	agtcaatctg	cgaaataatt	480
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tattcgacta	attggtgaag	ctcttggaag	aaattaacta	gaatacatctt	ttgtgtaaag	720
taaattacat	aagttgtatt	ttgttaactt	tatcttttcta	cactacaatt	atgcytttgt	780
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gaagactcga	ctgaaatatt	atgtatctag	cccatagtat	tgtacttaac	ttttacaggt	900
gagaagagag	ttctgtgttt	gcattgatta	tgatattctg	aataaatatg	gaatatattt	960
taaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	att			993

<210> 65
 <211> 689
 <212> DNA
 <213> Homo sapiens

<400> 65

gaattcggca	cgagctaagg	tgggcgggtc	acttaagcct	cgaactcctg	gcctcaagca	60
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atcctcctgc	ctttccttcc	caaagctatg	aaattgcaga	caggagccac	catgcctggc	120
tggtttttgg	gggccatggc	aagtgcaggc	ttgtcagagg	aattggagaa	gcagggatta	180
gtaggaaaa	cctctccact	tcttgtgttt	catgccagg	agtgtttgta	acttcagaac	240
ccgcccttac	cttacctacc	taccatgtta	tgtccatttc	acctactgtc	ccctgctgta	300
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ggctcacacc	tgtaatccca	acactttggg	tggccgagg	gggaggattg	cttgaagcca	600
ggcattgaga	ccatccttgg	ccaccaaacg	agaccccatc	tctacaaaaa	aagaaaaaca	660
aaacccaaaa	aaaaaaaaaa	aaactcgta				689

<210> 66
 <211> 942
 <212> DNA
 <213> Homo sapiens

<400> 66						
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cgtgccactg	cactctagcc	tgggtggcag	caagaccttg	tctcaaaaaa	aaaaaaaaaa	900
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<210> 67
 <211> 2309
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (652)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (677)
 <223> n equals a,t,g, or c

<400> 67

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aagcccgttc	cactgaactg	cccttctcca	gtgcctcctc	tgtatttgga	tgatgatgga	180
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gctgtttggt	atgtgagggt	ttcagtacaa	atgctgctgt	ctatttctgt	gcacttaaca	1860
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gcatggcctt	ggagagagac	tctgggtctc	tggctcagat	gtgttcatca	aatactcctt	2160
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<210> 68

<211> 814

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (421)

<223> n equals a,t,g, or c

<400> 68

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tatattgact	ttggggccaac	ggattccaat	attttacaaa	aaggcaatat	ccacgcaaca	180
tattccagat	tcggggtgtg	gagaagctgc	agggtcttag	gtgactctat	cacaactgct	240
ttccgtacgg	aggagccact	gccaaactgtg	tggacgagaa	tacttaagca	cgtgcttcat	300
tgctccactg	ccacaggtgg	atatttccagg	ggaattatta	ttaatttcaa	agttttttta	360

aaargytatg	ataagtaa	aaaagtaatg	gtaggaktca	cggtcggaga	gcttatcgcc	420
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caccctctga	tctttccccc	atcccactctg	aggaagttaa	agagatccct	cacaggtacc	540
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cccagcttcc	gcctgcacct	agagctcagc	gcaccagccc	ggctcagcca	gacgaaggca	720
aacgaagaga	tgcggatccc	tggaggactg	gccccaccgt	gaacaaaaca	ggaagcattc	780
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<210> 69
 <211> 788
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (370)
 <223> n equals a,t,g, or c

<400> 69						
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tggcctggca	gaagagtatt	atgggggtggt	tgtgttgtga	gccatctggc	ctgtacaatt	180
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caggctgcac	aaaaatagcg	tatggccttg	ctgtgtattc	accttcacat	taaaatagct	300
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aaggtagaan	tcttaataac	agtactcatg	ttgacaaacc	tttctcgtca	aaattcctat	420
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<210> 70
 <211> 791
 <212> DNA
 <213> Homo sapiens

<400> 70						
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ccatggttgt	cattatcgag	cacgtaactg	catgttagac	tctatgctaa	gtgttttaca	420
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<210> 71
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 <212> DNA
 <213> Homo sapiens

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<210> 72
 <211> 783
 <212> DNA
 <213> Homo sapiens

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<210> 73
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 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (15)

<223> n equals a,t,g, or c

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ttgggtcatat	gttagactcc	atacaggcat	agctatgatg	cagtgaatcc	cttagaagtt	360
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<210> 74

<211> 758

<212> DNA

<213> Homo sapiens

<400> 74

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<210> 75

<211> 1096
 <212> DNA
 <213> Homo sapiens

<400> 75

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<210> 76
 <211> 1230
 <212> DNA
 <213> Homo sapiens

<400> 76

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<210> 77
 <211> 911
 <212> DNA

<213> Homo sapiens

<400> 77

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<210> 78

<211> 488

<212> DNA

<213> Homo sapiens

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<220>

<221> SITE

<222> (438)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (484)

<223> n equals a,t,g, or c

<400> 78

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<210> 79

<211> 753

<212> DNA

<213> Homo sapiens

<220>
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 <223> n equals a,t,g, or c

<220>
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<210> 80
 <211> 2138
 <212> DNA
 <213> Homo sapiens

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aacatgtgtc	catttggacc	aaacgttgtt	ggttttttaa	aaattttatt	ttgttttttt	1800
gtttttgttt	ttgttttttt	tcactttaat	atgtaccagt	ggcacttaac	caaaagatac	1860
agtgatatag	ccatgtatct	gtctacttag	cgtggctgtt	ttgagggact	gtcccatcag	1920
tgaacaaact	gcatggcctt	ggagagagac	tctgggctct	tggctcagat	gtgttcacat	1980
aatactcctt	tcagagctgt	tgtgggtgta	agtgacatga	tgtggccaaa	aatccaaact	2040
gtgcagttgc	gttgtgacaa	acatgcaatg	tgctgtaaaa	attcaataca	gtttaaataa	2100
aatctctata	ttagtaaaaa	aaaaaaaaaa	aaactcga			2138

<210> 81
 <211> 1327
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (7)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (9)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (10)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1205)
 <223> n equals a,t,g, or c

<400> 81						
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cacgtcgagc	gggggagcgg	cgctgcctgt	ggagatccgc	ggaggccgac	aggattcggt	120
ggctgccgtc	cccgtctgtg	tgcattgggt	taaaaacgac	aaccaacatc	agccatgaaa	180
gatccaagtc	gcagcagtac	tagcccaagc	atcatcaatg	aagatgtgat	tattaacggt	240
cattctcatg	aagatgacaa	tccatttgca	gagtacatgt	ggatggaaaa	tgaagaagaa	300
ttcaacagac	aaatagaaga	ggagttatgg	gaagaagaat	ttattgaacg	ctgtttccaa	360
gaaatgctgg	aagaggaaga	agagcatgaa	tggtttatcc	cagctcgaga	tctcccacaa	420
actatggacc	aaatccaaga	ccagtttaat	gaccttgtaa	tcagtgatgg	ctcttctctg	480
gaagatcttg	tggatcaagag	caatctgaat	ccaaatgcaa	aggagtgtgt	tcctgggggtg	540
aagtacggaa	atatgtgagt	agacggggcc	ctcttttggt	ggatgtagca	caatttccac	600
actgtgaagg	cagtattaga	agacttaatt	gtaaaagctc	tcttgctact	gtgttacact	660
tatgcattgc	caaagttttt	gttagtcttg	catgcttaat	aaaagtgtctg	agactgttac	720
taagtaaaaa	gctgtcaaac	atttactgaa	aatagaattg	gccccatggc	ttgatgtgaa	780
gacagcaagg	aaagaagcac	cagtcaagtt	gtgaacaagc	accaaattaa	aagacctaaa	840
ccttaccaaa	ttgtcttttt	ttgaggctaa	tctatcactt	gttaatgtct	aaactttaaa	900

atcagtacat	ttaatttgag	ttccaactgt	taagcatatt	tctcagactt	aaatttgatt	960
atgtcccat	caaaaagaat	ctccattttc	tgaaggctctg	ttagttaatt	tgagataatt	1020
tggttaaaggc	aagtatgtca	tattactgag	gctacaagtt	agtcagcaga	tgagtgccag	1080
tccagccttt	tctgggtatgt	tattgttagr	aatattgagt	tctaattgta	catctgaggr	1140
agtatgtaat	tgagrattgt	aacttctaag	gggttcactg	catcatrgct	atgcctgtat	1200
ggrgntctwa	ccatatgacc	mataccamcc	cwtaatccca	gctgraccaa	rgrtacckgt	1260
aaccattwwg	gatttgaggg	gkggcctttc	ccyggcyttg	kttwaccmt	ccacggagaa	1320
tctggca						1327

<210> 82

<211> 758

<212> DNA

<213> Homo sapiens

<400> 82

gaattcgca	cgagacacgg	tttcaccctg	ttggccagga	tggtctcaat	ctcttgacct	60
cgtgatctgc	ctgcctcggc	ctcccaaagt	gctaggatta	caggcatgag	ccactgtgcc	120
cggcctttgt	tttttgagac	cttttttatt	ttgttgtcac	ccaggctgaa	gtgcagtggc	180
acaaacacag	ttcactacag	ccttgacctc	ctgggctcaa	gcaattctgc	ctcagtccca	240
caagtaggtg	ggcttacaaa	tgcacagcat	gacacctggc	ttatttttgt	attttgtgtg	300
tgtgtgtgtg	agccactgcy	caggccttgg	gcagctttct	tgatctctgt	tacctcatct	360
ataaaatgat	gataataata	gcttctccct	tattggggaa	ttgtaatgat	taaatgagat	420
aacatgtaaa	atgctcagta	caggccaggc	atggtggctc	acgcttgcaa	tcccagcact	480
ttgggaggct	gaggctgcta	gatctcttga	ggccagcagt	taagaccagc	ctggccaata	540
tggtgaaacc	ctgtgtctac	caaaaaatac	agaaagtcag	ccaggcatgg	tggtgcatgc	600
ctgtggtccc	agctactcag	aggctgaggt	gggagaatca	cttgagcccg	ggagacagaa	660
gttgaagtga	gccaagatgg	cgccactgca	ctctagcatg	ggctacagag	tgagagcctc	720
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<210> 83

<211> 47

<212> PRT

<213> Homo sapiens

<400> 83

Met	Gly	Ser	Cys	Ala	Ala	Phe	Leu	Leu	Ala	Ala	Leu	Ser	Leu	Leu	Gly
1				5					10						15

Val	Leu	Gly	Gly	Tyr	Pro	Gly	Arg	Arg	Ala	Phe	Ile	Leu	Pro	Asn	Arg
			20					25					30		

Arg	Ser	Leu	Arg	Gln	Trp	Leu	Glu	Val	Ser	Leu	Gly	Pro	Val	Ser
		35					40					45		

<210> 84

<211> 37

<212> PRT

<213> Homo sapiens

<400> 84

Met	Asn	Glu	Ala	Pro	Pro	Leu	Ser	Ser	Ser	Ser	Ile	Cys	Phe	Ile	Leu
1				5						10				15	

Phe	Tyr	Phe	Phe	Pro	Leu	Leu	Pro	Pro	Leu	Ser	Ser	Thr	Cys	Phe	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

Lys Gly Asn Arg His
35

<210> 85

<211> 52

<212> PRT

<213> Homo sapiens

<400> 85

Met Cys Gln Asn Arg Glu Ser Val Leu Val Leu Leu Ile Glu Ser Asn
1 5 10 15

Met Phe Ser Phe Tyr Leu Leu Phe Ser Phe Tyr Ile Val Phe Ser Phe
20 25 30

Phe Ile Val Leu Arg Pro Leu Pro Arg Asn Glu Ser Ile Lys Lys Ile
35 40 45

Gly Val Ile Phe
50

<210> 86

<211> 25

<212> PRT

<213> Homo sapiens

<400> 86

Met Thr Val Leu Ala Lys Arg Leu Val Leu Phe Leu Gly His Ile Phe
1 5 10 15

Leu Leu Leu Cys Val Arg Ile Leu Asp
20 25

<210> 87

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 87

Met Ala Ala Arg Ser Ala Leu Ala Leu Leu Leu Leu Pro Val Leu
1 5 10 15

Leu Leu Pro Val Gln Ser Arg Ser Glu Pro Glu Thr Thr Ala Pro Thr
20 25 30

Pro Thr Pro Ile Pro Gly Gly Asn Ser Ser Xaa Ser Arg Pro Leu Pro
35 40 45

Ser Ile Glu Leu His Ala Cys Gly Pro Tyr Pro Lys Pro Gly Leu Leu
 50 55 60

Ile Leu Leu Ala Pro Leu Ala Leu Trp Pro Ile Leu Leu
 65 70 75

<210> 88
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 88
 Met Cys Tyr Ile Pro Gly Ser Thr Gly Gly Gln Cys Trp Pro Trp Cys
 1 5 10 15

Trp Cys Trp Leu Cys Arg Glu Ala Leu Glu Trp Leu Cys Gly Ala Val
 20 25 30

Ser Ala Gly Pro Ala
 35

<210> 89
 <211> 43
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (40)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 89
 Met Leu Leu Arg Ile Ile His Leu Val Ile Phe Phe Ile Asn Phe Ser
 1 5 10 15

Thr Ser Val Val Ile Val His Tyr Asn Val Leu Asn Tyr Arg Cys Leu
 20 25 30

Leu Lys Cys Arg Cys Arg Val Xaa Lys Tyr Ser
 35 40

<210> 90
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 90
 Met Gln Asn Cys Leu Gly Ser Leu Ile Pro Gly Val Leu Phe Ser Leu
 1 5 10 15

Leu Leu Leu Pro Ser Met Phe Asn Ile Ile Leu Thr Gln Ser Lys Tyr
 20 25 30

Gly Glu Asn Ser Tyr Pro Ala Cys Phe Tyr Ser Ser Ser Asn Phe Pro
 35 40 45

Val Ser Ala Ile Thr Phe Leu Val Gly Val Val
 50 55

<210> 91
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 91
 Met Val Val Ile Val Leu Thr Ser Asn Val Cys Ile Cys Gly Tyr Val
 1 5 10 15

Val His Ser Ala Leu Ile Pro Arg Arg Gln Gly Leu Phe Leu Phe Leu
 20 25 30

Phe Leu Val Met Phe Tyr Phe Ser Ile Ala Phe Asn Arg Ile Thr Lys
 35 40 45

Gly Thr Leu Ser Ser Gln
 50

<210> 92
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 92
 Met Val Ala Gln Leu Val Gly Cys Val Val Ser Cys Leu Phe Val Leu
 1 5 10 15

Leu Arg Phe Leu Ile Ser Thr Phe Gly Ile Met Ser Phe Asn Gly Phe
 20 25 30

Val Ile Phe Val Thr Val Leu Ala Ala Tyr Asn Phe Ser Ala Gly Ala
 35 40 45

Phe Thr
 50

<210> 93
 <211> 155
 <212> PRT
 <213> Homo sapiens

<400> 93
 Met Trp Pro Gln Glu Ala Trp Val Cys Ile Leu Val Leu Leu Gly Thr
 1 5 10 15

Arg Val Gly Leu Cys Val Gly Asp Ser Leu Ala Pro Gln Ala Ser Leu
 20 25 30

Ser Tyr Cys Tyr Ile Leu Lys Val Pro Leu Arg Pro Lys Pro Leu Trp
 35 40 45

Gln Leu Ser Asn Glu Ser Ile Cys Ser Glu Tyr Arg Val Glu Gly Gly
50 55 60

Gln Gly His Gln Glu Leu Arg Met Phe Leu Arg Leu Met Arg Pro Arg
65 70 75 80

Tyr Trp Val His Gly Gly Pro Arg Ser Leu Cys Asp Ser Cys Ser Leu
85 90 95

Leu Pro Pro Cys Leu Asp Pro Ala Ser Ala Gln Lys Ala Asn Ser Leu
100 105 110

Asp Ser Lys Gly Leu Pro Arg Pro Ile Ser Met Ser Cys Ser Cys Gln
115 120 125

Leu Pro Val Pro Ser Leu Asp Leu Ser Ser Cys Leu Ala Pro Ser Leu
130 135 140

Pro Thr Pro His Ile Phe Thr Asn Lys Arg Lys
145 150 155

<210> 94

<211> 60

<212> PRT

<213> Homo sapiens

<400> 94

Met Ser His His Ala Arg Pro Tyr Lys Ala Phe Arg Ile Val Ser Cys
1 5 10 15

Tyr Phe Tyr Leu Phe Ile Ile Val Val Val Ile Ile Leu Leu Tyr
20 25 30

Pro Ile Ser Gln Gly Trp His Val Ala Asn Ile Val Phe Leu Lys Asn
35 40 45

Ile Ser Asp His Ile Leu Val Leu Leu Lys Thr Phe
50 55 60

<210> 95

<211> 70

<212> PRT

<213> Homo sapiens

<400> 95

Met Trp Phe Glu Ile Leu Pro Gly Leu Ser Val Met Gly Val Cys Leu
1 5 10 15

Leu Ile Pro Gly Leu Ala Thr Ala Tyr Ile His Arg Phe Thr Asn Gly
20 25 30

Gly Lys Glu Lys Arg Val Ala His Phe Gly Tyr His Trp Ser Leu Met
35 40 45

Glu Arg Asp Arg Arg Ile Ser Gly Val Asp Arg Tyr Tyr Val Ser Lys
50 55 60

Gly Leu Glu Asn Ile Asp
65 70

<210> 96
<211> 36
<212> PRT
<213> Homo sapiens

<400> 96
Met Val Phe Leu Leu Leu Leu Leu Phe Gly Phe Phe Phe Asp Gly Ser
1 5 10 15
Leu Arg Ser Pro Leu Leu Leu Ile Ile His Leu Gly Pro Ala Pro Thr
20 25 30
Phe Leu Gln Ile
35

<210> 97
<211> 59
<212> PRT
<213> Homo sapiens

<400> 97
Met Leu Cys Gln Thr Ile Pro Leu Cys Asn Arg Leu His Ile Val Phe
1 5 10 15
Met Ile Leu Ile Lys Leu Tyr Val Glu Thr Glu Cys Glu Val Lys Ser
20 25 30
Glu His Lys Lys Ile Met His Asp Glu Ile Ala Tyr His Phe Ile Gly
35 40 45
Tyr Leu Leu Cys Ile Tyr Thr Leu Arg Pro Leu
50 55

<210> 98
<211> 43
<212> PRT
<213> Homo sapiens

<400> 98
Met Ser Val Ser Ser Asn Leu Trp Gln Thr Leu Ile Leu Leu Leu Ser
1 5 10 15
Leu Trp Phe Cys Leu Phe Pro Glu Cys His Ile Val Gly Ile Ile Gln
20 25 30
Leu Cys Arg Leu Phe Arg Leu Pro Ser Phe Thr
35 40

<210> 99
<211> 31

<212> PRT

<213> Homo sapiens

<400> 99

Met	Cys	Cys	Arg	Ala	Gly	Gly	Ser	Gln	Ser	Pro	Gln	Val	Met	Val	Val
1				5				10					15		
Leu	Ile	Ile	Ile	Leu	Gly	Pro	Trp	Gly	Gly	Val	Arg	Ile	Asp	Ala	
			20					25					30		

<210> 100

<211> 180

<212> PRT

<213> Homo sapiens

<400> 100

Met	Tyr	Ser	Cys	Leu	Leu	Leu	Pro	Asp	Leu	Leu	Tyr	Leu	Thr	Leu	Ser
1				5					10					15	
Pro	Leu	Val	Val	Ala	Met	Leu	Leu	Thr	Pro	His	Phe	Asn	Val	Ala	Asn
			20					25					30		
Pro	Gln	Asn	Leu	Leu	Ala	Gly	Leu	Trp	Leu	Glu	Asn	Glu	His	Ser	Phe
		35					40					45			
Thr	Leu	Met	Ala	Pro	Glu	Arg	Ala	Arg	Thr	His	His	Cys	Gln	Pro	Glu
	50					55					60				
Glu	Arg	Lys	Val	Leu	Phe	Cys	Leu	Phe	Pro	Ile	Val	Pro	Asn	Ser	Gln
65					70					75				80	
Ala	Gln	Val	Gln	Pro	Pro	Gln	Met	Pro	Pro	Phe	Cys	Cys	Ala	Ala	Ala
				85				90					95		
Lys	Glu	Lys	Thr	Gln	Glu	Glu	Gln	Leu	Gln	Glu	Pro	Leu	Gly	Ser	Gln
			100					105					110		
Cys	Pro	Asp	Thr	Cys	Pro	Asn	Ser	Leu	Cys	Pro	Ser	His	Thr	Gln	Leu
		115					120					125			
Thr	Lys	Ala	Asn	Thr	Leu	Ser	Leu	Phe	Phe	Phe	Phe	Ser	Phe	Phe	Leu
	130					135					140				
Ser	Arg	Val	Ser	Leu	Leu	Ser	Pro	Arg	Leu	Glu	Cys	Asn	Gly	Arg	Ile
145					150					155				160	
Leu	Ala	His	Cys	Asn	Leu	His	Leu	Pro	Gly	Ser	Ser	Asn	Ser	Pro	Val
				165					170					175	
Ser	Ala	Ser	Arg												
			180												

<210> 101

<211> 211
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (195)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 101
 Met Arg Leu Phe Leu Trp Asn Ala Val Leu Thr Leu Phe Val Thr Ser
 1 5 10 15
 Leu Ile Gly Ala Leu Ile Pro Glu Pro Glu Val Lys Ile Glu Val Leu
 20 25 30
 Gln Lys Pro Phe Ile Cys His Arg Lys Thr Lys Gly Xaa Asp Leu Met
 35 40 45
 Leu Val His Tyr Glu Gly Tyr Leu Glu Lys Asp Gly Ser Leu Phe His
 50 55 60
 Ser Thr His Lys His Asn Asn Gly Gln Pro Ile Trp Phe Thr Leu Gly
 65 70 75 80
 Ile Leu Glu Ala Leu Lys Gly Trp Asp Gln Gly Leu Lys Gly Met Cys
 85 90 95
 Val Gly Glu Lys Arg Lys Leu Ile Ile Pro Pro Ala Leu Gly Tyr Gly
 100 105 110
 Lys Glu Gly Lys Gly Lys Ile Pro Pro Glu Ser Thr Leu Ile Phe Asn
 115 120 125
 Ile Asp Leu Leu Glu Ile Arg Asn Gly Pro Arg Ser His Glu Ser Phe
 130 135 140
 Gln Glu Met Asp Leu Asn Asp Asp Trp Lys Leu Ser Lys Asp Glu Val
 145 150 155 160
 Lys Ala Tyr Leu Lys Lys Glu Phe Glu Lys His Gly Ala Val Val Asn
 165 170 175
 Glu Ser His His Asp Ala Leu Val Glu Asp Ile Phe Asp Lys Glu Asp
 180 185 190
 Glu Asp Xaa Tyr Gly Phe Ile Ser Ala Arg Glu Phe Thr Tyr Lys His
 195 200 205
 Asp Glu Leu
 210

<210> 102
 <211> 621
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (137)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 102

Met	Gly	Leu	Leu	Ser	Asp	Pro	Val	Arg	Arg	Arg	Ala	Leu	Ala	Arg	Leu	1	5	10	15
Val	Leu	Arg	Leu	Asn	Ala	Pro	Leu	Cys	Val	Leu	Ser	Tyr	Val	Ala	Gly	20	25	30	
Ile	Ala	Trp	Phe	Leu	Ala	Leu	Val	Phe	Pro	Pro	Leu	Thr	Gln	Arg	Thr	35	40	45	
Tyr	Met	Ser	Glu	Asn	Ala	Met	Gly	Ser	Thr	Met	Val	Glu	Glu	Gln	Phe	50	55	60	
Ala	Gly	Gly	Asp	Arg	Ala	Arg	Ala	Phe	Ala	Arg	Asp	Phe	Ala	Ala	His	65	70	75	80
Arg	Lys	Lys	Ser	Gly	Ala	Leu	Pro	Val	Ala	Trp	Leu	Glu	Arg	Thr	Met	85	90	95	
Arg	Ser	Val	Gly	Leu	Glu	Val	Tyr	Thr	Gln	Ser	Phe	Ser	Arg	Lys	Leu	100	105	110	
Pro	Phe	Pro	Asp	Glu	Thr	His	Glu	Arg	Tyr	Met	Val	Ser	Gly	Thr	Asn	115	120	125	
Val	Tyr	Gly	Ile	Leu	Arg	Ala	Pro	Xaa	Ala	Ala	Ser	Thr	Glu	Ser	Leu	130	135	140	
Val	Leu	Thr	Val	Pro	Cys	Gly	Ser	Asp	Ser	Thr	Asn	Ser	Gln	Ala	Val	145	150	155	160
Gly	Leu	Leu	Leu	Ala	Leu	Ala	Ala	His	Phe	Arg	Gly	Gln	Ile	Tyr	Trp	165	170	175	
Ala	Lys	Asp	Ile	Val	Phe	Leu	Val	Thr	Glu	His	Asp	Leu	Leu	Gly	Thr	180	185	190	
Glu	Ala	Trp	Leu	Glu	Ala	Tyr	His	Asp	Val	Asn	Val	Thr	Gly	Met	Gln	195	200	205	
Ser	Ser	Pro	Leu	Gln	Gly	Arg	Ala	Gly	Ala	Ile	Gln	Ala	Ala	Val	Ala	210	215	220	
Leu	Glu	Leu	Ser	Ser	Asp	Val	Val	Thr	Ser	Leu	Asp	Val	Ala	Val	Glu	225	230	235	240
Gly	Leu	Asn	Gly	Gln	Leu	Pro	Asn	Leu	Asp	Leu	Leu	Asn	Leu	Phe	Gln	245	250	255	

Thr Phe Cys Gln Lys Gly Gly Leu Leu Cys Thr Leu Gln Gly Lys Leu
 260 265 270
 Gln Pro Glu Asp Trp Thr Ser Leu Asp Gly Pro Leu Gln Gly Leu Gln
 275 280 285
 Thr Leu Leu Leu Met Val Leu Arg Gln Ala Ser Gly Arg Pro His Gly
 290 295 300
 Ser His Gly Leu Phe Leu Arg Tyr Arg Val Glu Ala Leu Thr Leu Arg
 305 310 315 320
 Gly Ile Asn Ser Phe Arg Gln Tyr Lys Tyr Asp Leu Val Ala Val Gly
 325 330 335
 Lys Ala Leu Glu Gly Met Phe Arg Lys Leu Asn His Leu Leu Glu Arg
 340 345 350
 Leu His Gln Ser Phe Phe Leu Tyr Leu Leu Pro Gly Leu Ser Arg Phe
 355 360 365
 Val Ser Ile Gly Leu Tyr Met Pro Ala Val Gly Phe Leu Leu Leu Val
 370 375 380
 Leu Gly Leu Lys Ala Leu Glu Leu Trp Met Gln Leu His Glu Ala Gly
 385 390 395 400
 Met Gly Leu Glu Glu Pro Gly Gly Ala Pro Gly Pro Ser Val Pro Leu
 405 410 415
 Pro Pro Ser Gln Gly Val Gly Leu Ala Ser Leu Val Ala Pro Leu Leu
 420 425 430
 Ile Ser Gln Ala Met Gly Leu Ala Leu Tyr Val Leu Pro Val Leu Gly
 435 440 445
 Gln His Val Ala Thr Gln His Phe Pro Val Ala Glu Ala Glu Ala Val
 450 455 460
 Val Leu Thr Leu Leu Ala Ile Tyr Ala Ala Gly Leu Ala Leu Pro His
 465 470 475 480
 Asn Thr His Arg Val Val Ser Thr Gln Ala Pro Asp Arg Gly Trp Met
 485 490 495
 Ala Leu Lys Leu Val Ala Leu Ile Tyr Leu Ala Leu Gln Leu Gly Cys
 500 505 510
 Ile Ala Leu Thr Asn Phe Ser Leu Gly Phe Leu Leu Ala Thr Thr Met
 515 520 525
 Val Pro Thr Ala Ala Leu Ala Lys Pro His Gly Pro Arg Thr Leu Tyr
 530 535 540
 Ala Ala Leu Leu Val Leu Thr Ser Pro Ala Ala Thr Leu Leu Gly Ser
 545 550 555 560

Leu Phe Leu Trp Arg Glu Leu Gln Glu Ala Pro Leu Ser Leu Ala Glu
 565 570 575

Gly Trp Gln Leu Phe Leu Ala Ala Leu Ala Gln Gly Val Leu Glu His
 580 585 590

His Thr Tyr Gly Ala Leu Leu Phe Pro Leu Leu Ser Leu Gly Leu Tyr
 595 600 605

Pro Cys Trp Leu Leu Phe Trp Asn Val Leu Phe Trp Lys
 610 615 620

<210> 103

<211> 287

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (263)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 103

Met Ala Leu Leu Pro Ile Phe Phe Gly Ala Leu Arg Ser Val Arg Cys
 1 5 10 15

Ala Arg Gly Lys Asn Ala Ser Asp Met Pro Glu Thr Ile Thr Ser Arg
 20 25 30

Asp Ala Ala Arg Phe Pro Ile Ile Ala Ser Cys Thr Leu Leu Gly Leu
 35 40 45

Tyr Leu Phe Phe Lys Ile Phe Ser Gln Glu Tyr Ile Asn Leu Leu Leu
 50 55 60

Ser Met Tyr Phe Phe Val Leu Gly Ile Leu Ala Leu Ser His Thr Ile
 65 70 75 80

Ser Pro Phe Met Asn Lys Phe Phe Pro Ala Ser Phe Pro Asn Arg Gln
 85 90 95

Tyr Gln Leu Leu Phe Thr Gln Gly Ser Gly Glu Asn Lys Glu Glu Ile
 100 105 110

Ile Asn Tyr Glu Phe Asp Thr Lys Asp Leu Val Cys Leu Gly Leu Ser
 115 120 125

Ser Ile Val Gly Val Trp Tyr Leu Leu Arg Lys His Trp Ile Ala Asn
 130 135 140

Asn Leu Phe Gly Leu Ala Phe Ser Leu Asn Gly Val Glu Leu Leu His
 145 150 155 160

Leu Asn Asn Val Ser Thr Gly Cys Ile Leu Leu Gly Gly Leu Phe Ile
 165 170 175

Tyr Asp Val Phe Trp Val Phe Gly Thr Asn Val Met Val Thr Val Ala

180								185				190			
Lys	Ser	Phe	Glu	Ala	Pro	Ile	Lys	Leu	Val	Phe	Pro	Gln	Asp	Leu	Leu
195							200				205				
Glu	Lys	Gly	Leu	Glu	Ala	Asn	Asn	Phe	Ala	Met	Leu	Gly	Leu	Gly	Asp
210							215				220				
Val	Val	Ile	Pro	Gly	Ile	Phe	Ile	Ala	Leu	Leu	Leu	Arg	Phe	Asp	Ile
225							230				235				
Ser	Leu	Lys	Lys	Asn	Thr	His	Thr	Tyr	Phe	Tyr	Thr	Ser	Phe	Ala	Ala
245							250				255				
Tyr	Ile	Phe	Gly	Leu	Gly	Xaa	Tyr	His	Leu	His	His	Ala	His	Leu	Gln
260							265				270				
Ala	Cys	Ser	Val	Met	Arg	Ser	Gln	Ile	Leu	Arg	Ile	Gln	Arg	Gln	
275							280				285				

<210> 104

<211> 31

<212> PRT

<213> Homo sapiens

<400> 104

Met	Ser	Arg	Leu	Leu	Leu	Leu	Phe	Gly	Arg	Leu	Cys	Ser	Leu	Trp	Cys
1				5					10					15	
Leu	Ser	Trp	Leu	Tyr	Ser	Thr	Asp	Thr	Arg	Pro	Leu	Leu	Arg	Gly	
			20					25					30		

<210> 105

<211> 77

<212> PRT

<213> Homo sapiens

<400> 105

Met	Leu	Pro	Arg	Leu	Val	Leu	Asn	Ser	Trp	Ala	Cys	Pro	Pro	Gln	Pro
1				5					10					15	
Pro	Lys	Val	Leu	Glu	Leu	Gln	Ala	Cys	Ala	Thr	Ile	Ser	Ser	Leu	Ile
			20					25					30		
Thr	Leu	Phe	Leu	Met	Phe	Ile	Lys	Ser	Ser	His	Pro	Leu	Ser	Leu	Ala
		35					40					45			
Glu	Ala	Ser	Gln	Glu	Gly	Gln	Asn	Gln	Leu	Gln	Ser	Thr	Ile	Ser	Asp
	50					55					60				
Pro	Glu	Thr	Trp	Ile	Leu	Phe	Val	His	Leu	Asn	Val	Thr			
	65				70					75					

<210> 106
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 106
 Met Val Phe Leu Val Phe Tyr Val Leu Arg Ala Leu Lys Cys Asn Ser
 1 5 10 15
 Ser Tyr His Ser Cys Thr Asn Val Leu Thr Gln Ile Ala Ser Gln Ile
 20 25 30
 Asp Lys Thr Leu Asn Asn Phe Ser Leu Lys Lys Cys
 35 40

<210> 107
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 107
 Met Asn Pro Cys Leu Ser Ile Ile Phe Leu Leu Thr Pro Val Leu Leu
 1 5 10 15
 Ser His Pro Leu Gln Ser Leu His Phe Leu Leu Lys Val Asp Leu Asp
 20 25 30
 Phe Ser Leu Ser Cys Ser Ile Cys Thr
 35 40

<210> 108
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 108
 Met Thr Val Tyr Leu Leu Lys Thr His Pro Cys Phe Phe Val Ala Tyr
 1 5 10 15
 Gln Met Gln Val Ala Leu Ile Ile Leu Leu Pro Gly Leu Arg Asn Ser
 20 25 30
 Lys Thr Val Thr Met Pro Leu Ser Pro Ala Leu Leu Pro Thr Leu Leu
 35 40 45
 Phe Phe Pro Ser Pro Thr Pro Phe Phe His Pro Phe Leu Ser Val Leu
 50 55 60
 Cys Cys Phe Lys Tyr
 65

<210> 109
 <211> 48
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 109

Met His Ala Thr Cys Thr Arg Thr Trp Arg Ala Gln Val Ser Leu His
1 5 10 15

Gln Pro Pro Cys Ser Arg Asp Trp Lys Ile Cys His Leu Leu Val Val
20 25 30

Leu Ser Leu Pro Pro Pro Thr Pro Ala Arg Xaa Pro Glu Phe Leu Asn
35 40 45

<210> 110

<211> 192

<212> PRT

<213> Homo sapiens

<400> 110

Met Ile Arg Asn Asp Gln Asp Ser Leu Met Gln Leu Leu Gln Leu Gly
1 5 10 15

Leu Val Val Leu Gly Ser Gln Glu Ser Gln Glu Ser Asp Leu Ser Lys
20 25 30

Gln Leu Ile Ser Val Ile Ile Gly Leu Gly Val Ala Leu Leu Val
35 40 45

Leu Val Ile Met Thr Met Ala Phe Val Cys Val Arg Lys Ser Tyr Asn
50 55 60

Arg Lys Leu Gln Ala Met Lys Ala Ala Lys Glu Ala Arg Lys Thr Ala
65 70 75 80

Ala Gly Val Met Pro Ser Ala Pro Ala Ile Pro Gly Thr Asn Met Tyr
85 90 95

Asn Thr Glu Arg Ala Asn Pro Met Leu Asn Leu Pro Asn Lys Asp Leu
100 105 110

Gly Leu Glu Tyr Leu Ser Pro Ser Asn Asp Leu Asp Ser Val Ser Val
115 120 125

Asn Ser Leu Asp Asp Asn Ser Val Asp Val Asp Lys Asn Ser Gln Glu
130 135 140

Ile Lys Glu His Arg Pro Pro His Thr Pro Pro Glu Pro Asp Pro Glu
145 150 155 160

Pro Leu Ser Val Val Leu Leu Gly Arg Gln Ala Gly Ala Ser Gly Gln
165 170 175

Leu Glu Gly Pro Ser Tyr Thr Asn Ala Gly Leu Asp Thr Thr Asp Leu
 180 185 190

<210> 111

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 111

Met Ala His Val Val Val Ala Arg Asn Glu Cys Leu Ile Arg Ala Phe
 1 5 10 15

Leu Phe Leu Leu His Cys Val Ser Leu Leu Pro Ser Pro Gly Glu Val
 20 25 30

Asn Ile Arg His Thr Leu Phe Thr Val Glu Glu Arg Leu Thr Thr Pro
 35 40 45

Arg Ala Leu Lys Leu Ser Leu Ser Leu Ile Val Ser Leu His Ala Xaa
 50 55 60

Cys Arg Lys Gln Glu Cys Ser
 65 70

<210> 112

<211> 35

<212> PRT

<213> Homo sapiens

<400> 112

Met Arg Leu Thr Glu Lys Asp Thr Val Leu Phe Thr Lys Gly Val Leu
 1 5 10 15

Phe Leu His Leu Phe Ile Asn Ala Leu Phe Trp Tyr Cys Lys Phe Gly
 20 25 30

His Asn Phe
 35

<210> 113

<211> 59

<212> PRT

<213> Homo sapiens

<400> 113

Met Thr Ser Val Ser Thr Gln Leu Ser Leu Val Leu Met Ser Leu Leu
 1 5 10 15

Leu Val Leu Pro Val Val Glu Ala Val Glu Ala Gly Asp Ala Ile Ala

20

25

30

Leu Leu Leu Gly Val Val Leu Ser Ile Thr Gly Ile Cys Ala Cys Leu
 35 40 45

Gly Val Tyr Ala Arg Lys Arg Asn Gly Gln Met
 50 55

<210> 114

<211> 28

<212> PRT

<213> Homo sapiens

<400> 114

Met Asn Ser Phe Trp Ser Lys Leu Leu Val Leu Pro Leu Leu Ala Pro
 1 5 10 15

Leu Ser Met Ala Arg Ala Ser Ala Cys Gln Arg Trp
 20 25

<210> 115

<211> 24

<212> PRT

<213> Homo sapiens

<400> 115

Met Met Arg Leu Leu Asp Leu Arg Ile Phe Leu Met Ile His His Lys
 1 5 10 15

Ala Lys Ser Trp Glu Ser His Thr
 20

<210> 116

<211> 34

<212> PRT

<213> Homo sapiens

<400> 116

Met Pro Leu Ser Leu Leu Leu Ile Val Trp Lys Leu Glu Leu Cys Val
 1 5 10 15

Gly Ser Ala Leu Val Leu Ile His Thr Gln Arg Arg Tyr Ile Ile Leu
 20 25 30

Gln Val

<210> 117

<211> 77

<212> PRT

<213> Homo sapiens

<400> 117

Met Leu Leu Ala Thr Leu Leu Leu Leu Leu Leu Gly Gly Ala Leu Ala

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<210> 118
<211> 43
<212> PRT
<213> Homo sapiens

<400> 118
Met Thr Gly Val Phe Lys Leu Pro Leu Leu Phe Trp Val His Glu Ala
 1             5             10             15
Ser Val Gly Gly Cys Pro Tyr Val Lys Leu Val Glu Phe Glu Glu Met
          20             25             30
Leu Thr Leu Tyr Gly Ile Leu Leu Ile Leu Phe
      35             40

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<210> 119
<211> 45
<212> PRT
<213> Homo sapiens

<400> 119
Met Gln Leu Ala Pro Phe Ile Ser Ile Pro Val Leu Ser Gly Thr Thr
  1               5               10               15
Pro Trp Thr Ala Val Phe Arg Ala Ser Ser Ile Cys Thr Pro Leu Leu
      20               25               30
Thr Leu Ser Ala Ala Gly Met Leu Val Glu Ser Ser Leu
      35               40               45

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<210> 120
<211> 28
<212> PRT
<213> Homo sapiens

<400> 120
Met Pro Pro Leu Ser Asp Ile Leu Leu Thr Val Ala Val Val Ala Phe
 1             5             10             15
Glu Met Thr Gly His Ile Tyr Ile Trp Pro His Thr
          20          25
```


<210> 121
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 121
 Met Glu Leu Pro Cys Asp Cys Ser Lys Leu Leu Tyr Cys Lys Phe Ser
 1 5 10 15
 Val Trp His Leu Pro Val Asn Ala Met Lys Leu Leu Ile Ile Phe Leu
 20 25 30
 Lys Val Leu His Cys Leu Phe Phe Leu Leu Leu Cys Lys Phe Leu Tyr
 35 40 45
 Thr Leu Ile Val Ile Leu Thr Asp Lys Tyr Ser Ile Leu Asn
 50 55 60

<210> 122
 <211> 86
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (68)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (72)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 122
 Met Pro Val Ser Trp Gly Cys Pro Ser Lys Thr Pro Gln Thr Arg Ala
 1 5 10 15
 Tyr Thr Arg Cys Val Tyr Phe Leu Met Val Leu Glu Ala Gly Val Gly
 20 25 30
 Gly His Ser Val Ser Arg Val Gly Ser Leu Glu Val Pro Pro Trp Leu
 35 40 45
 Val Ala Ala Asn Asn Phe Pro His Leu Met Trp Ser Ser Phe Cys Val
 50 55 60
 Gly Pro His Xaa Val Phe Leu Xaa Asp Pro Ser Leu Pro Asp Pro Gly
 65 70 75 80
 Pro Pro Asn Asn Leu Thr
 85

<210> 123
 <211> 63

<212> PRT

<213> Homo sapiens

<400> 123

Met	Cys	Tyr	Phe	Leu	Glu	Ile	Ser	Leu	Leu	Met	Val	Phe	Ala	Leu	Asn
1				5					10					15	
Ile	Lys	Ala	Ala	Tyr	Gly	Cys	Cys	Asn	Ile	Asn	Gly	Thr	Glu	Val	His
		20						25					30		
Arg	Ala	Lys	Gly	Pro	Val	Ser	Val	Pro	Phe	Pro	Leu	Ser	Arg	Pro	Leu
		35					40					45			
Ser	Gly	Thr	Pro	Leu	Leu	Asp	Arg	Leu	Arg	Pro	Phe	Gln	Thr	Leu	
	50					55					60				

<210> 124

<211> 35

<212> PRT

<213> Homo sapiens

<400> 124

Met	Pro	Leu	Pro	Ser	Ser	Phe	Pro	Leu	Pro	Val	Phe	Leu	Ser	Ser	Cys
1				5					10					15	
Pro	Phe	Leu	Met	Ser	Val	Ser	Ile	Gly	Phe	Leu	Ile	Leu	Val	Phe	Asn
		20						25					30		
Val	His	Pro													
		35													

<210> 125

<211> 31

<212> PRT

<213> Homo sapiens

<400> 125

Met	Phe	Ile	Phe	Cys	Val	Ser	Leu	Ala	Phe	Leu	Pro	Arg	Phe	Ile	Ser
1				5					10					15	
Pro	Gln	Ser	Cys	Glu	Trp	Ala	Gly	Leu	Ser	Leu	Val	Trp	His	His	
		20						25					30		

<210> 126

<211> 40

<212> PRT

<213> Homo sapiens

<400> 126

Met	Lys	Asn	Asn	Thr	Gln	Lys	Arg	Leu	Phe	Leu	Trp	Gly	Glu	Leu	Leu
1				5					10					15	

His Val Ile Val Trp Leu Ser Gly Ala Gly Cys Thr Leu Ile Cys Glu
35 40 45

Asp Asn Pro Phe Leu Leu Leu Phe Ser Gln Tyr Leu Gln Pro His His
 50 55 60

Pro Glu Ile Met Lys Pro Phe Ile Leu Gly His Lys Ser Ser Asn Gly
 65 70 75 80

Gly Leu Ser Pro Pro Ser Ala
 85

<210> 130

<211> 63

<212> PRT

<213> Homo sapiens

<400> 130

Met Phe Tyr Met Val Cys Val Leu Gly Ser Gly Ala Gln Pro Leu Ser
 1 5 10 15

Glu Leu Ala Tyr Leu Ala Lys Leu Pro Thr Leu Gln Val Gly Lys Tyr
 20 25 30

Asn Pro Leu Phe Asn Lys Ala His Pro Leu His Pro Val Leu Thr Thr
 35 40 45

Phe Cys Glu Cys Ala Val Ile Phe Ser Cys Ser Ile Ala Arg Trp
 50 55 60

<210> 131

<211> 54

<212> PRT

<213> Homo sapiens

<400> 131

Met Arg Phe Gln Ser Tyr Leu Trp Pro Ser Arg Ile Leu Val Gly Thr
 1 5 10 15

Tyr Cys Ile Ala Ala Glu Val Leu Phe Pro Ser Ala Leu Ala Ser Cys
 20 25 30

Gly Pro Val Trp Gln Gly Gly Ala Pro Thr Lys Ser Trp Gln Pro Gly
 35 40 45

Ala Lys Thr Ile Ile Pro
 50

<210> 132

<211> 40

<212> PRT

<213> Homo sapiens

<400> 132

Met Arg Arg Trp Ala Gly Phe Gly Lys Ser Pro Gln Phe Trp Trp Thr

1 5 10 15
 Gly Ile Leu Val Ala Leu Gly Ala Ala Leu Leu Gly Gly Pro Arg Leu
 20 25 30

Gly Arg Arg Leu Thr Phe Gly Leu
 35 40

<210> 133
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 133
 Met Ala Leu Ala Ile Phe Ile Pro Val Leu Ile Ile Ser Leu Leu Leu
 1 5 10 15

Gly Gly Ala Tyr Ile Tyr Ile Thr Arg Cys Arg Tyr Tyr Ser Asn Leu
 20 25 30

Arg Leu Pro Leu Met Tyr Ser His Pro Tyr Ser Gln Ile Thr Val Glu
 35 40 45

Thr Glu Phe Asp Asn Pro Ile Tyr Glu Thr Gly Glu Thr Arg Glu Tyr
 50 55 60

Glu Val Ser Ile
 65

<210> 134
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 134
 Met Gly Phe Leu Phe Leu His Ile Leu Pro Ser Ile Ile Asn Thr Arg
 1 5 10 15

Ser Ala Pro Gln Pro Thr Ser Cys Arg Met Gln Pro Glu Gln Gln Pro
 20 25 30

His Ser Thr Leu Lys Pro Val Ile Leu Gly Met Met Ile Ile Ser
 35 40 45

<210> 135
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 135
 Met Ser Gly Leu Val Gly Gly Gly Ser Arg Cys Ser Lys Val Arg Phe
 1 5 10 15

Arg Cys Phe Asn Gly Asp Ser Leu Leu Val Leu Val Leu Gln His His
20 25 30

Phe Arg Leu Cys Ser Trp Cys Leu Ala Pro Ser Leu Phe Leu Leu Leu
35 40 45

Ser Cys Gln Val Val Ser Thr Met Met Glu Gln Asp Pro Val Ile Tyr
50 55 60

Asp Asp Asp Asp Asp Leu Pro Asn Tyr Phe Ser Val
65 70 75

<210> 136

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 136

Met Phe Leu Glu Leu Pro Met Gln His Ser Asp Val Leu Leu Phe Leu
1 5 10 15

Val Cys Trp Lys Ala Met Gly Ser Lys Lys Ser Pro Ser His Phe Xaa
20 25 30

Pro Glu Val Gly Gly Ile Xaa Pro Ser Phe Gly Met Leu Asn Val Thr
35 40 45

Leu Leu Arg Ser Leu Thr
50

<210> 137

<211> 54

<212> PRT

<213> Homo sapiens

<400> 137

Met Leu Val Leu Phe Pro Leu Leu Tyr Arg Gly Trp Ser Pro Val Pro
1 5 10 15

Gly Thr Ala Glu Gly Gly Met Cys Cys Cys Cys Leu Cys Ile Ser Arg
20 25 30

Tyr Ser Leu Leu Thr Ser Ser Gln Asp Lys Glu Pro Pro Tyr Glu Met
35 40 45

Ser Ser Ser Glu Leu Ser
50

<210> 138

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 138

Met Thr Cys Tyr Glu Val Ile Leu Phe Phe Ile Lys Leu Phe Ser Asp
1 5 10 15

Met Gly Lys Tyr Lys Glu Cys Lys Glu Phe Lys Lys Gln Arg Thr Lys
20 25 30

Xaa Tyr Met
35

<210> 139

<211> 80

<212> PRT

<213> Homo sapiens

<400> 139

Met Lys Ala Gln Pro Leu Glu Ala Leu Leu Leu Val Ala Leu Val Leu
1 5 10 15

Ser Phe Cys Gly Val Trp Phe Glu Asp Trp Leu Ser Lys Trp Arg Phe
20 25 30

Gln Cys Ile Phe Gln Leu Ala His Gln Pro Ala Leu Val Asn Ile Gln
35 40 45

Phe Arg Gly Thr Val Leu Gly Ser Glu Thr Phe Leu Gly Ala Glu Glu
50 55 60

Asn Ser Ala Asp Val Arg Ser Trp Gln Thr Leu Ser Tyr Phe Glu Leu
65 70 75 80

<210> 140

<211> 67

<212> PRT

<213> Homo sapiens

<400> 140

Met Ala Ala Ser Val Gly Arg Ala Thr Arg Ser Ala Ala Ala His Leu
1 5 10 15

Thr Gln Leu Pro Pro Ala Pro Arg Ala Gln Arg Thr Ser Pro Ala Gln

30

Arg Ala Glu
65

<213> Homo sapiens

Ser Ser Gly Cys Thr Lys Ile Ala Tyr Gly Phe Ala Val Tyr Ser Pro
35 40 45

Ser Ser
50

<213> Homo sapiens

Lys Asn Leu Tyr Phe His Lys Asn Ser Met Tyr Pro Ser Pro Lys Leu
20 25 30

Ser Ser Phe Gln Glu Ala Phe Leu Phe Phe Phe Leu Ile Leu Lys Asn
35 40 45

Pro Leu Thr Leu Cys Ser
50

<213> Homo sapiens

Ile His Pro Ser Arg Ser Thr Leu Ser Ser Gln Leu Val Thr Leu Pro
1 5 10 15

Leu Phe Glu Leu Val Phe Pro Ile Pro Ser Ser Gln Ser Pro Phe Ser
 20 25 30

Leu Asn Tyr Leu Ser Glu Phe Pro Leu Pro Glu His Glu Pro Cys Leu
 35 40 45

Glu

<210> 144

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 144

Met Thr Cys Cys Cys Leu Leu Cys Lys Leu Gln Gly Ile Phe Phe Phe
 1 5 10 15

Ser Phe Asn Ser Ser Val Leu Lys Ser Ile Leu Gly Thr Thr Arg Thr
 20 25 30

Leu Ser Ala Pro Trp Ile Gly Val Ser Val Lys Gly Thr Gln Trp Ala
 35 40 45

Leu Gly Ser Ala Arg Pro Gly Cys Gly Ser Gln Leu Thr Ser Ser Leu
 50 55 60

Gly Gly Leu Arg Gln Val Ile Cys Gln Pro His Leu Gln Lys His Asp
 65 70 75 80

Ala Lys Leu Xaa Ser Val
 85

<210> 145

<211> 57

<212> PRT

<213> Homo sapiens

<400> 145

Met His Lys Cys Asn Thr Val Thr Arg Glu Leu Leu Gln Leu Ser Leu
 1 5 10 15

Leu Ile Leu Pro Ser Gln Cys Gly Asn Cys Ala Thr Ser Thr Lys Arg
 20 25 30

Gly Pro Arg Leu Leu Lys Tyr Phe Arg Thr Ser Pro Gln Glu Gln Thr
 35 40 45

Pro Leu His Leu Asp Ser Asp Cys Ser
 50 55

<210> 146
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 146
 Met Ser His Cys Ala Arg Pro Leu Phe Phe Glu Thr Phe Phe Ile Leu
 1 5 10 15
 Leu Ser Pro Arg Leu Lys Cys Ser Gly Thr Asn Thr Val His Tyr Ser
 20 25 30
 Leu Asp Leu Leu Gly Ser Ser Asn Ser Ala Ser Val Pro Gln Val Gly
 35 40 45
 Gly Leu Thr Asn Ala Gln His Asp Thr Trp Leu Ile Phe Val Phe Cys
 50 55 60
 Val Cys Val Cys Glu Pro Leu Arg Arg Pro Trp Ala Ala Phe Leu Ile
 65 70 75 80
 Ser Val Thr Ser Ser Ile Lys
 85

<210> 147
 <211> 230
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (216)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 147
 Met Gly Leu Ala Leu Tyr Val Leu Pro Val Leu Gly Gln His Val Ala
 1 5 10 15
 Thr Gln His Phe Pro Val Ala Glu Ala Glu Ala Val Val Leu Thr Leu
 20 25 30
 Leu Ala Ile Tyr Ala Ala Gly Leu Ala Leu Pro His Asn Thr His Arg
 35 40 45
 Val Val Ser Thr Gln Ala Pro Asp Arg Gly Trp Met Ala Leu Lys Leu
 50 55 60
 Val Ala Leu Ile Tyr Leu Ala Leu Gln Leu Gly Cys Ile Ala Leu Thr
 65 70 75 80
 Asn Phe Ser Leu Gly Phe Leu Leu Ala Thr Thr Met Val Pro Thr Ala
 85 90 95
 Ala Leu Ala Lys Pro His Gly Pro Arg Thr Leu Tyr Ala Ala Leu Leu
 100 105 110

Val Leu Thr Ser Pro Ala Ala Thr Leu Leu Gly Ser Leu Phe Leu Trp
115 120 125

Arg Glu Leu Gln Glu Ala Pro Leu Ser Leu Ala Glu Gly Trp Gln Leu
130 135 140

Phe Leu Ala Ala Leu Ala Gln Gly Val Leu Glu His His Thr Thr Ala
145 150 155 160

Pro Cys Ser Ser His Cys Cys Pro Trp Ala Ser Thr Pro Ala Gly Cys
165 170 175

Phe Ser Gly Met Cys Ser Ser Gly Ser Glu Ile Cys Leu Ser Gly Leu
180 185 190

Gly Gln Arg Leu Pro Lys Asp Pro Ile Leu Pro Pro Ser Gly Glu Ile
195 200 205

Asn Glu Cys Leu Phe Gln Gln Xaa Lys Lys Lys Lys Lys Lys Lys Lys
210 215 220

Lys Lys Lys Lys Gly Gly
225 230

<210> 148

<211> 62

<212> PRT

<213> Homo sapiens

<400> 148

Gln Pro Ala Leu Leu Tyr Leu Val Pro Ala Cys Ile Gly Phe Pro Val
1 5 10 15

Leu Val Ala Leu Ala Lys Gly Glu Val Thr Glu Met Phe Ser Tyr Glu
20 25 30

Glu Ser Asn Pro Lys Asp Pro Ala Ala Val Thr Glu Ser Lys Glu Gly
35 40 45

Thr Glu Ala Ser Ala Ser Lys Gly Leu Glu Lys Lys Glu Lys
50 55 60

<210> 149

<211> 17

<212> PRT

<213> Homo sapiens

<400> 149

Gln Leu Ile Leu Ser Leu Leu Arg Gly Phe Cys Lys Thr Glu Arg Val
1 5 10 15

Gly

<210> 150

<211> 15
 <212> PRT
 <213> Homo sapiens

<400> 150
 Met Ala Leu Gly Ala Arg Glu Leu Pro Gly Ser Leu Ser Arg Trp
 1 5 10 15

<210> 151
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 151
 Met Tyr Ser Phe Ser Val Leu Glu Ile Thr Cys Phe Ile Leu Phe Leu
 1 5 10 15

Trp Pro Ser Trp Val
 20

<210> 152
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 152
 Met Lys Ile Lys Gln Arg Phe Ser Leu Leu Leu Phe His Cys Pro Phe
 1 5 10 15

Pro Pro Cys Cys Leu Ser Leu Gly
 20

<210> 153
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 153
 Met Asn Gly Leu Phe Gln Leu Glu Ile Ser His Lys Leu Trp Thr Lys
 1 5 10 15

Ser Lys Thr Ser Leu Met Thr Leu Leu Ser Val Met Ala Leu Leu Trp
 20 25 30

Lys Ile Leu Trp Ser Arg Ala Ile
 35 40

<210> 154
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 154
 Met Thr Pro Gly Leu Phe Leu Tyr Phe Val Cys Val Cys Val Ser His

1	5	10	15
Cys	Ala	Gly	Leu
	Gly	Gln	Leu
	Ser		
	20		

<210> 155
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 155
 Ile Arg His Glu Leu Gly Cys Ser Trp Arg Phe Arg Ala Val Lys Ala
 1 5 10 15
 Ala Ser Ala Gln Gly Leu Phe Leu Ser Ala Pro Gly Pro Ala Ala Arg
 20 25 30
 Arg Cys His Gly Val Val Arg Cys Phe Ser Thr Cys Arg Ala Leu Thr
 35 40 45
 Ala Arg Cys Thr Gly Arg Val Pro Trp Glu Ala Cys Leu Tyr Ser Ser
 50 55 60
 Glu Pro Pro Leu Thr Glu Thr Val Ala Arg Ser Val Ser Trp Thr Cys
 65 70 75 80
 Glu Leu Ala Leu Thr Cys Tyr Ala Pro Arg Ala Leu Ser Gly Ala Pro
 85 90 95
 Val Leu Cys Arg His Asp Val
 100

<210> 156
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 156
 Val His Leu Gly Leu Pro Pro Gly Asp Ala
 1 5 10

<210> 157
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 157
 Arg Ala Val Lys Ala Ala Ser Ala Gln Gly Leu Phe Leu Ser Ala Pro
 1 5 10 15

Gly Pro

<210> 158

<211> 28
 <212> PRT
 <213> Homo sapiens

<400> 158
 Gly Val Val Arg Cys Phe Ser Thr Cys Arg Ala Leu Thr Ala Arg Cys
 1 5 10 15
 Thr Gly Arg Val Pro Trp Glu Ala Cys Leu Tyr Ser
 20 25

<210> 159
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 159
 Ser Val Ser Trp Thr Cys Glu Leu Ala Leu Thr Cys Tyr Ala Pro Arg
 1 5 10 15
 Ala Leu Ser Gly Ala Pro Val
 20

<210> 160
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 160
 Asn Ser Ala Arg Ala Lys Thr Lys Glu Thr Phe Gly Gly
 1 5 10

<210> 161
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 161
 Phe Leu Ala Ile His Phe Pro Thr Asp Phe Pro Leu Lys Pro Pro Lys
 1 5 10 15
 Val Ala Phe Thr Arg Met Tyr Phe Pro Asn Ser Asn Ser Asn Gly Ser
 20 25 30
 Thr Cys Leu Asp Ile Leu Trp Ser Gln Trp Ser Pro Ala Leu
 35 40 45

<210> 162
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 162
 Leu Lys Pro Pro Lys Val Ala Phe Thr Arg Met Tyr Phe Pro Asn Ser

71

1

5

10

15

Asn Ser Asn Gly Ser Thr Cys
20

<210> 163

<211> 38

<212> PRT

<213> Homo sapiens

<400> 163

Ala Gly Ile Arg His Glu Gly Thr Thr Pro Cys Phe Cys Lys Gly Leu
1 5 10 15

Glu Asn Ile Tyr Pro Val Pro Phe Leu Phe Ala Phe Val Phe Ile Ile
20 25 30

Leu Ala Asn Tyr Trp Lys
35

<210> 164

<211> 44

<212> PRT

<213> Homo sapiens

<400> 164

His Ser Val Val Thr Val Val Ser Ser Thr Ile Ser Lys Val Leu Phe
1 5 10 15

Ser Ile Cys Ser Pro Leu Tyr Asp Ser Asn Pro His Asp Leu Leu Val
20 25 30

Asn Glu Val Ala Glu Ile Phe Thr Met Ser Ile Ile
35 40

<210> 165

<211> 38

<212> PRT

<213> Homo sapiens

<400> 165

Asn Ser Ala Arg Ala Gly Gln Asp Arg Arg Gly Pro Arg Val Thr Ala
1 5 10 15

Glu Gln Thr Leu Pro Ala Ala Ala Ala Ala Ala Leu Leu Arg Asp
20 25 30

Glu Pro Glu Arg Leu Ala
35

<210> 166

<211> 27

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 166
 Leu His His Pro His Xaa Leu Pro Leu Ala Leu Xaa Ile Gln Asn Phe
 1 5 10 15
 Pro Gln Ser Leu Ala Ala Arg Leu Ser Trp Gly
 20 25

<210> 167
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 167
 Met Ile Leu Val Phe Thr Val Lys Leu Ser Asn Val
 1 5 10

<210> 168
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 168
 Thr Pro Val Ile Thr Val Leu Thr Ile Lys Phe Phe Gln Leu Ser Phe
 1 5 10 15
 Phe Thr Glu Ile
 20

<210> 169
 <211> 42
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (21)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 169

Gln Val Ala Glu Ser Ile Leu Leu Thr Asp Glu Gln Pro Lys Ala Gly
 1 5 10 15

Gln Thr Leu Leu Xaa Ala Leu Pro Ala Pro Xaa Ile Arg Asn Thr Gly
 20 25 30

Lys Glu Ile Gly Thr Ala Thr Gln Pro Ser
 35 40

<210> 170

<211> 7

<212> PRT

<213> Homo sapiens

<400> 170

Pro Gly Ser His Arg Glu Asp
 1 5

<210> 171

<211> 27

<212> PRT

<213> Homo sapiens

<400> 171

Glu His Val Trp Gly Phe Val Trp Val Thr Leu Trp Leu Pro Lys Pro
 1 5 10 15

Pro Phe Pro Thr Val Ile Ser Leu Lys Cys Leu
 20 25

<210> 172

<211> 8

<212> PRT

<213> Homo sapiens

<400> 172

Ile Arg His Glu Gly Ile Thr Gly
 1 5

<210> 173

<211> 9

<212> PRT

<213> Homo sapiens

<400> 173

Gly Phe Gly Leu Gly Asn Gly Ala Glu
 1 5

<210> 174

<211> 6

<212> PRT

<213> Homo sapiens

<400> 174

Arg Ile Tyr Met Leu Ile
 1 5

<210> 175

<211> 91

<212> PRT

<213> Homo sapiens

<400> 175

Thr His Ile Arg Lys Gln Tyr Ala Ala Val Pro Val Arg Ile Pro Gly
 1 5 10 15

Arg Pro Thr Arg Pro Pro Thr Arg Pro His Leu Pro Trp Leu Trp Gly
 20 25 30

Gly Ala Ser Met Pro Cys Val Ala Leu Gly Trp Ala Val Ala Pro His
 35 40 45

Cys Ser Ser Phe Leu Phe Thr Asn His Ala Ser Leu Leu Val Ser Ser
 50 55 60

Asp Glu Ile Thr Trp Ile Ser Trp Leu Pro Val Lys Asp Leu His Ala
 65 70 75 80

Tyr Tyr Gly Phe Phe Val Val Val Val Val Trp
 85 90

<210> 176

<211> 25

<212> PRT

<213> Homo sapiens

<400> 176

Val Pro Val Arg Ile Pro Gly Arg Pro Thr Arg Pro Pro Thr Arg Pro
 1 5 10 15

His Leu Pro Trp Leu Trp Gly Gly Ala
 20 25

<210> 177

<211> 24

<212> PRT

<213> Homo sapiens

<400> 177

Val Ala Pro His Cys Ser Ser Phe Leu Phe Thr Asn His Ala Ser Leu
 1 5 10 15

Leu Val Ser Ser Asp Glu Ile Thr
 20

<210> 178

<211> 6

<212> PRT

<213> Homo sapiens

<400> 178

Met Leu Gln Tyr Leu Asn

1

5

<210> 179

<211> 17

<212> PRT

<213> Homo sapiens

<400> 179

Ile Arg His Glu Val Ser Leu Pro Ser Thr Phe Ser Val Leu His Arg

1

5

10

15

Ile

<210> 180

<211> 13

<212> PRT

<213> Homo sapiens

<400> 180

Arg Ala Arg Glu Gln Trp Gly Ser Gly Trp Ala His Ala

1

5

10

<210> 181

<211> 101

<212> PRT

<213> Homo sapiens

<400> 181

Met Leu Leu Thr Pro His Phe Asn Val Ala Asn Pro Gln Asn Leu Leu

1

5

10

15

Ala Gly Leu Trp Leu Glu Asn Glu His Ser Phe Thr Leu Met Ala Pro

20

25

30

Glu Arg Ala Arg Thr His His Cys Gln Pro Glu Glu Arg Lys Val Leu

35

40

45

Phe Cys Leu Phe Pro Ile Val Pro Asn Ser Gln Ala Gln Val Gln Pro

50

55

60

Pro Gln Met Pro Pro Phe Cys Cys Ala Ala Ala Lys Glu Lys Thr Gln

65

70

75

80

Glu Glu Gln Leu Gln Glu Pro Leu Gly Ser Gln Cys Pro Asp Thr Cys

85

90

95

Pro Asn Ser Leu Cys

100

<210> 182
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 182
 Arg Met Ser Thr Val Ser Pro Leu Trp Leu Gln Lys Glu Gln Glu His
 1 5 10 15
 Thr Thr Ala Ser Gln Lys Arg Glu Lys Ser Cys Ser Val Ser Phe Pro
 20 25 30
 Leu Ser Gln Ile Ala Lys His Arg Phe Asn His Pro Lys Cys His Pro
 35 40 45
 Ser Ala Val Gln Gln Pro Arg Lys Arg Pro Arg Arg Ser Ser Ser Lys
 50 55 60
 Asn Leu Trp Ala Val Ser Ala Gln Ile Leu Ala Pro Ile Leu Cys Val
 65 70 75 80
 Gln Ala Thr Leu Ser
 85

<210> 183
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 183
 Gly Leu Trp Leu Glu Asn Glu His Ser Phe Thr Leu Met Ala Pro Glu
 1 5 10 15
 Arg Ala Arg Thr His His Cys Gln Pro Glu Glu Arg Lys Val Leu
 20 25 30

<210> 184
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 184
 Glu His Thr Thr Ala Ser Gln Lys Arg Glu Lys Ser Cys Ser Val Ser
 1 5 10 15
 Phe Pro Leu Ser Gln
 20

<210> 185
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 185

Thr Cys Ala Trp Leu Phe Gly Thr Met Gly Lys Arg Gln Asn Lys Thr
 1 5 10 15
 Phe Leu Ser Ser Gly Trp Gln Trp Cys Val Leu Ala Leu Ser Gly Ala
 20 25 30
 Ile Arg Val Lys Leu Cys Ser Phe Ser Ser Gln Arg Pro Ala Asn Arg
 35 40 45
 Phe Trp Gly Phe Ala Thr Leu Lys Cys Gly Val Asn Ser Ile Ala Thr
 50 55 60
 Thr Ser Gly Asp Arg Val Lys Tyr Ser Lys Ser Gly Arg Ser Arg Gln
 65 70 75 80
 Leu Tyr Ile Pro Leu Val Phe Leu Tyr Gly Pro Val Cys Leu Gly Lys
 85 90 95
 Lys Ser His Ile Leu Leu Lys Gly Ser Asn Tyr Ser Ala Leu Leu Phe
 100 105 110
 Cys Lys Val Leu Phe Lys Cys Ser Lys Tyr
 115 120

<210> 186
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 186
 Lys Arg Gln Asn Lys Thr Phe Leu Ser Ser Gly Trp Gln Trp Cys Val
 1 5 10 15
 Leu Ala Leu Ser Gly Ala Ile Arg Val
 20 25

<210> 187
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 187
 Leu Lys Cys Gly Val Asn Ser Ile Ala Thr Thr Ser Gly Asp Arg Val
 1 5 10 15

Lys Tyr Ser Lys Ser Gly Arg
 20

<210> 188
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 188
 Leu Leu Lys Gly Ser Asn Tyr Ser Ala Leu Leu Phe Cys Lys Val Leu

1

5

10

15

Phe Lys Cys

<210> 189

<211> 211

<212> PRT

<213> Homo sapiens

<400> 189

Met Arg Leu Phe Leu Trp Asn Ala Val Leu Thr Leu Phe Val Thr Ser
 1 5 10 15

Leu Ile Gly Ala Leu Ile Pro Glu Pro Glu Val Lys Ile Glu Val Leu
 20 25 30

Gln Lys Pro Phe Ile Cys His Arg Lys Thr Lys Gly Gly Asp Leu Met
 35 40 45

Leu Val His Tyr Glu Gly Tyr Leu Glu Lys Asp Gly Ser Leu Phe His
 50 55 60

Ser Thr His Lys His Asn Asn Gly Gln Pro Ile Trp Phe Thr Leu Gly
 65 70 75 80

Ile Leu Glu Ala Leu Lys Gly Trp Asp Gln Gly Leu Lys Gly Met Cys
 85 90 95

Val Gly Glu Lys Arg Lys Leu Ile Ile Pro Pro Ala Leu Gly Tyr Gly
 100 105 110

Lys Glu Gly Lys Gly Lys Ile Pro Pro Glu Ser Thr Leu Ile Phe Asn
 115 120 125

Ile Asp Leu Leu Glu Ile Arg Asn Gly Pro Arg Ser His Glu Ser Phe
 130 135 140

Gln Glu Met Asp Leu Asn Asp Asp Trp Lys Leu Ser Lys Asp Glu Val
 145 150 155 160

Lys Ala Tyr Leu Lys Lys Glu Phe Glu Lys His Gly Ala Val Val Asn
 165 170 175

Glu Ser His His Asp Ala Leu Val Glu Asp Ile Phe Asp Lys Glu Asp
 180 185 190

Glu Asp Lys Asp Gly Phe Ile Ser Ala Arg Glu Phe Thr Tyr Lys His
 195 200 205

Asp Glu Leu
 210

<210> 190

<211> 186

<212> PRT

<213> Homo sapiens

<400> 190

Glu Val Lys Ile Glu Val Leu Gln Lys Pro Phe Ile Cys His Arg Lys
 1 5 10 15
 Thr Lys Gly Gly Asp Leu Met Leu Val His Tyr Glu Gly Tyr Leu Glu
 20 25 30
 Lys Asp Gly Ser Leu Phe His Ser Thr His Lys His Asn Asn Gly Gln
 35 40 45
 Pro Ile Trp Phe Thr Leu Gly Ile Leu Glu Ala Leu Lys Gly Trp Asp
 50 55 60
 Gln Gly Leu Lys Gly Met Cys Val Gly Glu Lys Arg Lys Leu Ile Ile
 65 70 75 80
 Pro Pro Ala Leu Gly Tyr Gly Lys Glu Gly Lys Gly Lys Ile Pro Pro
 85 90 95
 Glu Ser Thr Leu Ile Phe Asn Ile Asp Leu Leu Glu Ile Arg Asn Gly
 100 105 110
 Pro Arg Ser His Glu Ser Phe Gln Glu Met Asp Leu Asn Asp Asp Trp
 115 120 125
 Lys Leu Ser Lys Asp Glu Val Lys Ala Tyr Leu Lys Lys Glu Phe Glu
 130 135 140
 Lys His Gly Ala Val Val Asn Glu Ser His His Asp Ala Leu Val Glu
 145 150 155 160
 Asp Ile Phe Asp Lys Glu Asp Glu Asp Lys Asp Gly Phe Ile Ser Ala
 165 170 175
 Arg Glu Phe Thr Tyr Lys His Asp Glu Leu
 180 185

<210> 191

<211> 633

<212> DNA

<213> Homo sapiens

<400> 191

ATGAGGCTTT TCTTGTGGAA CGCGGTCTTG ACTCTGTTTCG TCACTTCTTT GATTGGGGCT 60
 TTGATCCCTG AACCAGAAGT GAAAATTGAA GTTCTCCAGA AGCCATTCAT CTGCCATCGC 120
 AAGACCAAAG GAGGGGATTT GATGTTGGTC CACTATGAAG GCTACTTAGA AAAGGACGGC 180
 TCCTTATTTT ACTCCACTCA CAAACATAAC AATGGTCAGC CCATTTGGTT TACCCTGGGC 240
 ATCCTGGAGG CTCTCAAAGG TTGGGACCAG GGCTTGAAAG GAATGTGTGT AGGAGAGAAG 300
 AGAAAGCTCA TCATTCCTCC TGCTCTGGGC TATGGAAAAG AAGGAAAAGG TAAAATTCCC 360

CCAGAAAGTA CACTGATATT TAATATTGAT CTCCTGGAGA TTCGAAATGG ACCAAGATCC 420
 CATGAATCAT TCCAAGAAAT GGATCTTAAT GATGACTGGA AACTCTCTAA AGATGAGGTT 480
 AAAGCATATT TAAAGAAGGA GTTTGAAAAA CATGGTGCGG TGGTGAATGA AAGTCATCAT 540
 GATGCTTTGG TGGAGGATAT TTTTGATAAA GAAGATGAAG ACAAAGATGG GTTTATATCT 600
 GCCAGAGAAT TTACATATAA ACACGATGAG TTA 633

<210> 192
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 192
 Ser Arg Gly Thr Phe Arg Cys Phe Cys Arg Asp Phe Phe Pro Cys Phe
 1 5 10 15

Ser Asn

<210> 193
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 193
 Gln Glu Gln Pro Val Gly Thr Ala Ala Val Val Gly Gly Gly Arg Gly
 1 5 10 15

Ser Val Ala Ala Pro Pro Cys Pro Ala
 20 25

<210> 194
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 194
 Gly Asn Val Ala Phe Pro Ala Glu Pro Val Ser Pro Pro Ala Ser Leu
 1 5 10 15

Leu Gln Gln Pro Glu Leu Glu Ser Asp Pro Glu Arg Thr Leu Ala Met
 20 25 30

Asp Ser Ala Leu Ser Asp Pro His Asn Gly Ser Ala Glu Ala Gly Gly
 35 40 45

Pro Thr Asn Ser Thr Thr Arg Pro Pro Ser Thr Pro Glu Gly Ile Ala
 50 55 60

Leu Ala Tyr Gly Ser Leu Leu Leu
 65 70

<210> 195
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 195
 Val Ser Pro Pro Ala Ser Leu Leu Gln Gln Pro Glu Leu Glu Ser Asp
 1 5 10 15
 Pro Glu Arg Thr Leu Ala
 20

<210> 196
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 196
 Gly Ser Ala Glu Ala Gly Gly Pro Thr Asn Ser Thr Thr Arg Pro Pro
 1 5 10 15
 Ser Thr Pro Glu Gly
 20

<210> 197
 <211> 251
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 197
 Ala Cys Leu Lys Met Cys Met Met Lys Met Val Xaa Pro Gln Ala Glu
 1 5 10 15

Xaa Val Gly Cys Lys Ala Gly Val Glu Val Gly Val Gly Ile Leu Leu
 20 25 30

Gln Ala Asp Val Lys Ala Gln Gln Gln Gly Asn Glu Asp Pro Trp Asn
 35 40 45

Asp Asp Ile Ser Lys Ser Gln His Gly Lys Val Val Cys Phe Glu Ala
 50 55 60

Phe Leu Gln Gln Ile Leu Gly Lys His Gln Phe Tyr Trp Cys Leu Glu
 65 70 75 80

Gly Ala Lys Tyr Pro Glu Asp Ile Val Asp Glu Glu

20

25

<210> 200
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 200
 Ser Ile Lys Gly Glu Gly Gln Ala Lys Lys Val Val Gly Asn Pro Val
 1 5 10 15

Leu Pro Gln Gln Val Pro Asp Ala Asn Asp
 20 25

<210> 201
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 201
 Leu Leu Gly Glu Tyr Phe Glu Lys Glu Val Glu Pro Gln Glu Cys Ala
 1 5 10 15

Ala Gly Asp Asp Gly Glu Ala Gly Gly Ile
 20 25

<210> 202
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 202
 Leu Arg Ser Val Val Gln Asp His Pro Gly Gln His Gly Glu Thr Pro
 1 5 10 15

Ser Leu Leu Lys Ile Gln
 20

<210> 203
 <211> 93
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 203

Ile Xaa Xaa Gly Gln Lys Ile Ser Pro Tyr Phe Lys Met Gln Gln Ser
1 5 10 15

Ile Asn Lys Ile Leu Ala Ile Phe Leu Asn Asp Thr Phe Phe Tyr Asn
20 25 30

Leu Tyr Arg Lys Leu Ser Ala Arg Ala Arg His Arg Val Thr Pro Val
35 40 45

Ile Pro Ala Leu Trp Glu Ala Lys Ala Gly Gly Ser Pro Glu Val Ser
50 55 60

Ser Ser Arg Pro Pro Trp Pro Thr Trp Arg Asn Ser Ile Ser Thr Lys
65 70 75 80

Asn Thr Lys Gln Leu Ala Arg Cys Gly Gly Arg Arg Leu
85 90

<210> 204

<211> 24

<212> PRT

<213> Homo sapiens

<400> 204

Tyr Phe Lys Met Gln Gln Ser Ile Asn Lys Ile Leu Ala Ile Phe Leu
1 5 10 15

Asn Asp Thr Phe Phe Tyr Asn Leu
20

<210> 205

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 205

Met Phe Tyr Asn Phe Val Arg Gln Leu Asp Thr Val Ser Ile Glu His
1 5 10 15

Ala Gly Lys Ser Lys Leu Lys Met Thr Val Gly Thr Lys Leu Thr Ser
20 25 30

Gly Xaa Gly Pro Arg Lys Ser Ser Gln Ser Gly Arg Ile Ala Ala Ser
35 40 45

Ile Thr Asp Cys Gln Gln Cys Lys Ala
50 55

<210> 206

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 206

Met Glu Ala Ala Ile Leu Pro Leu Trp Leu Leu Phe Leu Gly Pro Xaa
1 5 10 15

Pro Glu Val Ser Phe Val Pro Thr Val Ile Phe Asn Leu Asp Phe Pro
20 25 30

Ala Cys Ser Ile Leu Thr Val Ser Ser Cys Leu Thr Lys Leu
35 40 45

<210> 207

<211> 22

<212> PRT

<213> Homo sapiens

<400> 207

Leu Leu Phe Ile Leu Leu His Leu His Leu Lys Leu Val Leu Asn Cys
1 5 10 15

Ser Ala Asn Ser Leu Val
20

<210> 208

<211> 16

<212> PRT

<213> Homo sapiens

<400> 208

Asn Ser Ala Arg Ala Ala Arg Ala Thr Phe Ser Val Gln Ser Met Gly
1 5 10 15

<210> 209

<211> 11

<212> PRT

<213> Homo sapiens

<400> 209

Met Leu Glu Arg Asn Leu Pro Gln Gly Arg Ala
1 5 10

<210> 210

<211> 97

<212> PRT

<213> Homo sapiens

<400> 210

Ala	Thr	Glu	Pro	Gln	Phe	Leu	Gly	Arg	Ala	Ala	Ala	Val	Ser	Ala	Glu
1				5					10					15	
Gly	Lys	Ala	Val	Gln	Thr	Ala	Ile	Leu	Gly	Gly	Ala	Met	Ser	Val	Val
			20					25					30		
Ser	Ala	Cys	Val	Leu	Leu	Thr	Gln	Cys	Leu	Arg	Asp	Leu	Ala	Gln	Pro
		35					40					45			
Arg	Arg	Gly	Ala	Lys	Met	Ser	Asp	His	Arg	Glu	Arg	Leu	Arg	Asn	Ser
	50					55					60				
Ala	Cys	Ala	Val	Ser	Glu	Gly	Cys	Thr	Leu	Leu	Ser	Gln	Ala	Leu	Arg
	65				70					75					80
Glu	Arg	Ser	Ser	Pro	Arg	Thr	Leu	Pro	Pro	Val	Asn	Ser	Asn	Ser	Val
				85					90					95	

Asn

<210> 211

<211> 30

<212> PRT

<213> Homo sapiens

<400> 211

Leu	Gly	Gly	Ala	Met	Ser	Val	Val	Ser	Ala	Cys	Val	Leu	Leu	Thr	Gln
1				5					10					15	
Cys	Leu	Arg	Asp	Leu	Ala	Gln	Pro	Arg	Arg	Gly	Ala	Lys	Met		
		20						25					30		

<210> 212

<211> 25

<212> PRT

<213> Homo sapiens

<400> 212

Cys	Ala	Val	Ser	Glu	Gly	Cys	Thr	Leu	Leu	Ser	Gln	Ala	Leu	Arg	Glu
1				5					10					15	
Arg	Ser	Ser	Pro	Arg	Thr	Leu	Pro	Pro							
			20					25							

<210> 213

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 213

Gln Phe Ser Thr Pro Lys Arg Thr Val Gly Ala Asn Arg Gln Ala Ile

1 5 10 15

Asn Ala Ala Leu Thr Gln Ala Thr Arg Thr Thr Val Tyr Ile Val Asp

20 25 30

Ile Gln Asp Ile Asp Ser Ala Ala Arg Ala Arg Pro His Ser Tyr Leu

35 40 45

Asp Ala Tyr Phe Val Phe Pro Asn Gly Ser Ala Leu Thr Xaa Asp Glu

50 55 60

Leu Ser Val

65

<210> 214

<211> 32

<212> PRT

<213> Homo sapiens

<400> 214

Leu Thr Gln Ala Thr Arg Thr Thr Val Tyr Ile Val Asp Ile Gln Asp

1 5 10 15

Ile Asp Ser Ala Ala Arg Ala Arg Pro His Ser Tyr Leu Asp Ala Tyr

20 25 30

<210> 215

<211> 25

<212> PRT

<213> Homo sapiens

<400> 215

Asn His Gly His Ser Cys Phe Leu Cys Glu Ile Val Ile Arg Ser Gln

1 5 10 15

Phe His Thr Thr Tyr Glu Pro Glu Ala

20 25

<210> 216

<211> 48

<212> PRT

<213> Homo sapiens

<400> 216

Ser Gly Arg His Arg Val Glu Leu Gln Leu Leu Phe Pro Leu Val Arg

1 5 10 15

Val Asn Phe Glu Leu Gly Val Asn His Gly His Ser Cys Phe Leu Cys
 20 25 30

Glu Ile Val Ile Arg Ser Gln Phe His Thr Thr Tyr Glu Pro Glu Ala
 35 40 45

<210> 217

<211> 13

<212> PRT

<213> Homo sapiens

<400> 217

Lys Phe Leu Asn Trp Ser Ile Ser Asp Ala Phe Val Lys
 1 5 10

<210> 218

<211> 12

<212> PRT

<213> Homo sapiens

<400> 218

Ile Lys Ile Phe Ser Cys Cys Arg Lys Ala Trp Val
 1 5 10

<210> 219

<211> 98

<212> PRT

<213> Homo sapiens

<400> 219

Phe Leu Ser Leu Leu Leu Leu Ala Phe Ser Phe Ser Leu Phe Phe Phe
 1 5 10 15

Phe Asn Arg Lys Cys Thr Met Gln Val His Arg Pro Gln Thr Lys Leu
 20 25 30

Asp His Gln His Val His Val Gln Thr Ser Ala Val Ala Cys Thr Ala
 35 40 45

Cys Ala Pro Gln Phe Leu Gln Cys Trp Phe Val Cys Phe Leu Ile Gln
 50 55 60

His Pro Ala Gly Phe Thr Phe Gln Ala Arg Ser Val Ala Thr Pro Lys
 65 70 75 80

Cys Val Leu Met Ser Ser Ser Leu Phe Ala Phe Leu Leu Thr Tyr Phe
 85 90 95

Val Tyr

<210> 220
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 220
 Val Gln Thr Ser Ala Val Ala Cys Thr Ala Cys Ala Pro Gln Phe Leu
 1 5 10 15
 Gln Cys Trp Phe Val Cys Phe
 20

<210> 221
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 221
 Ser Val Ala Thr Pro Lys Cys Val Leu Met Ser Ser Ser Leu Phe Ala
 1 5 10 15
 Phe Leu Leu

<210> 222
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 222
 Ser Gln His Pro Glu Leu Gln Glu Gly Lys Ile Ser Ser Gln Ile Glu
 1 5 10 15
 Phe Tyr Ile Tyr His Phe Phe Gly Thr Phe Ser Pro Gln Asp Ser Asn
 20 25 30
 Ile

<210> 223
 <211> 141
 <212> PRT
 <213> Homo sapiens

<400> 223
 Met Asn Ala Arg Gly Leu Gly Ser Glu Leu Lys Asp Ser Ile Pro Val
 1 5 10 15
 Thr Glu Leu Ser Ala Ser Gly Pro Phe Glu Ser His Asp Leu Leu Arg
 20 25 30
 Lys Gly Phe Ser Cys Val Lys Asn Glu Leu Leu Pro Ser His Pro Leu
 35 40 45
 Glu Leu Ser Glu Lys Asn Phe Gln Leu Asn Gln Asp Lys Met Asn Phe

50		55		60
Ser Thr Leu Arg Asn Ile Gln Gly Leu Phe Ala Pro Leu Lys Leu Gln				
65		70		75
				80
Met Glu Phe Lys Ala Val Gln Gln Val Gln Arg Leu Pro Phe Leu Ser				
	85		90	
				95
Ser Ser Asn Leu Ser Leu Asp Val Leu Arg Gly Asn Asp Glu Thr Ile				
	100		105	
				110
Gly Phe Glu Asp Ile Leu Asn Asp Pro Ser Gln Ser Glu Val Met Gly				
	115		120	
				125
Glu Pro His Leu Met Val Glu Tyr Lys Leu Gly Leu Leu				
	130		135	
				140

<210> 224
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 224
 Leu Lys Asp Ser Ile Pro Val Thr Glu Leu Ser Ala Ser Gly Pro Phe
 1 5 10 15

Glu Ser His Asp Leu Leu Arg
 20

<210> 225
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 225
 Gln Leu Asn Gln Asp Lys Met Asn Phe Ser Thr Leu Arg Asn Ile Gln
 1 5 10 15

Gly Leu Phe Ala Pro
 20

<210> 226
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 226
 Gln Gln Val Gln Arg Leu Pro Phe Leu Ser Ser Ser Asn Leu Ser Leu
 1 5 10 15

Asp Val Leu Arg Gly Asn
 20

<210> 227

<211> 38
 <212> PRT
 <213> Homo sapiens

<400> 227
 Glu Phe Gly Thr Arg Ala Ala Pro Gly Ser Leu Gly Ala Arg Gly Ser
 1 5 10 15
 Ala Ala Thr Pro Ser Gly Arg Pro Gln Lys Leu Arg Asp Pro Ser Gly
 20 25 30
 Thr Ser Gly Gln Pro Arg
 35

<210> 228
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 228
 Asn Ser Ala Arg Gly Arg His Gln Gly Ala Trp Ala Pro Gly Ala Pro
 1 5 10 15
 Pro Arg Pro His Arg Val Asp His Arg Ser Ser Gly Thr Leu Pro Ala
 20 25 30
 Pro Leu Asp Ser Pro Gly Cys Cys Trp Pro Pro Ser Ser Ser Ser Ser
 35 40 45
 Leu Glu Ala Leu Trp Pro Ile Gln Thr Gly Leu Phe Phe Gln Ile Met
 50 55 60
 Leu Val Arg Thr Pro Gln Gln Cys Ser
 65 70

<210> 229
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 229
 Gln Gly Ala Trp Ala Pro Gly Ala Pro Pro Arg Pro His Arg Val Asp
 1 5 10 15
 His Arg Ser Ser Gly Thr Leu Pro Ala
 20 25

<210> 230
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 230
 Leu Trp Pro Ile Gln Thr Gly Leu Phe Phe Gln Ile Met Leu Val Arg
 1 5 10 15

Thr Pro Gln

<210> 231
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 231
 Thr Met Ser Glu Leu Leu Gly Arg Asn Leu Gly Trp Glu Ala Ser Asp
 1 5 10 15
 Pro Arg Leu His Pro Trp Leu Pro Gln Pro Ala Ala Ala Ser Lys Thr
 20 25 30

Lys Arg Glu
 35

<210> 232
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 232
 Ile Phe Arg Asn Ala His Ile Ile Val Gly Thr Asp Ser Phe Leu His
 1 5 10 15

Asp

<210> 233
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 233
 Gly Gly Asn Lys Tyr Gln Thr Ile Asp Asn Tyr Gln Pro Tyr Pro
 1 5 10 15

<210> 234
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 234
 Pro Leu Leu Gly Val Ser Ala Thr Leu Asn Ser Val Leu Asn Ser Asn
 1 5 10 15

Ala Ile Lys Asn
 20

<210> 235

<211> 14
 <212> PRT
 <213> Homo sapiens

<400> 235
 Gly Ser Ala Val Ser Ala Ala Pro Gly Ile Leu Tyr Pro Gly
 1 5 10

<210> 236
 <211> 280
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (137)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (138)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 236
 Arg Ser Phe Ser Leu Ser Phe Ser Leu Leu Ser Pro Ser Glu Met Met
 1 5 10 15

Ala Leu Gly Ala Ala Gly Ala Thr Arg Val Phe Val Ala Met Val Ala
 20 25 30

Ala Ala Leu Gly Gly His Pro Leu Leu Gly Val Ser Ala Thr Leu Asn
 35 40 45

Ser Val Leu Asn Ser Asn Ala Ile Lys Asn Leu Pro Pro Pro Leu Gly
 50 55 60

Gly Ala Ala Gly His Pro Gly Ser Ala Val Ser Ala Ala Pro Gly Ile
 65 70 75 80

Leu Tyr Pro Gly Gly Asn Lys Tyr Gln Thr Ile Asp Asn Tyr Gln Pro
 85 90 95

Tyr Pro Cys Ala Glu Asp Glu Glu Cys Gly Thr Asp Glu Tyr Cys Ala
 100 105 110

Ser Pro Thr Arg Gly Gly Asp Ala Gly Val Gln Ile Cys Leu Ala Cys
 115 120 125

Arg Lys Arg Arg Lys Arg Cys Met Xaa Xaa Ala Met Cys Cys Pro Gly
 130 135 140

Asn Tyr Cys Lys Asn Gly Ile Cys Val Ser Ser Asp Gln Asn His Phe
 145 150 155 160

Arg Gly Glu Ile Glu Glu Thr Ile Thr Glu Ser Phe Gly Asn Asp His
 165 170 175

Ser Thr Leu Asp Gly Tyr Ser Arg Arg Thr Thr Leu Ser Ser Lys Met
 180 185 190

Tyr His Thr Lys Gly Gln Glu Gly Ser Val Cys Leu Arg Ser Ser Asp
 195 200 205

Cys Ala Ser Gly Leu Cys Cys Ala Arg His Phe Trp Ser Lys Ile Cys
 210 215 220

Lys Pro Val Leu Lys Glu Gly Gln Val Cys Thr Lys His Arg Arg Lys
 225 230 235 240

Gly Ser His Gly Leu Glu Ile Phe Gln Arg Cys Tyr Cys Gly Glu Gly
 245 250 255

Leu Ser Cys Arg Ile Gln Lys Asp His His Gln Ala Ser Asn Ser Ser
 260 265 270

Arg Leu His Thr Cys Gln Arg His
 275 280

<210> 237

<211> 8

<212> PRT

<213> Homo sapiens

<400> 237

Ser Ala Thr Leu Asn Ser Val Leu
 1 5

<210> 238

<211> 7

<212> PRT

<213> Homo sapiens

<400> 238

Asn Ser Asn Ala Ile Lys Asn
 1 5

<210> 239

<211> 7

<212> PRT

<213> Homo sapiens

<400> 239

Gly Gly Asn Lys Tyr Gln Thr
 1 5

<210> 240

<211> 15

<212> PRT

<213> Homo sapiens

<400> 240

Asp Asn Tyr Gln Pro Tyr Pro Cys Ala Glu Asp Glu Glu Cys Gly
 1 5 10 15

<210> 241
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 241
 Gly Val Gln Ile Cys Leu
 1 5

<210> 242
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 242
 Pro Gly Asn Tyr Cys Lys Asn Gly Ile Cys
 1 5 10

<210> 243
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 243
 Arg Gly Glu Ile Glu Glu
 1 5

<210> 244
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 244
 Tyr His Thr Lys Gly Gln Glu Gly Ser Val Cys Leu Arg Ser Ser Asp
 1 5 10 15

Cys Ala

<210> 245
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 245
 Gly Leu Cys Cys Ala Arg His Phe Trp Ser Lys Ile Cys Lys Pro Val
 1 5 10 15

Leu Lys Glu Gly Gln Val Cys Thr Lys His
 20 25

<210> 246
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 246
 Arg Lys Gly Ser His Gly Leu Glu Ile Phe
 1 5 10

<210> 247
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 247
 Gln Arg Cys Tyr Cys Gly Glu Gly Leu
 1 5

<210> 248
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 248
 Cys Arg Ile Gln Lys Asp His His Gln Ala Ser Asn Ser Ser Arg Leu
 1 5 10 15

His Thr Cys Gln Arg His
 20

<210> 249
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 249
 Glu Gly Leu Cys Glu Gly Ala Val Gly Trp Asn Gly Gly Trp His Gly
 1 5 10 15

Thr Gly Thr Arg Glu Ala Ser Ser Pro Phe Ser Ala Thr Ser Lys Arg
 20 25 30

His Ser Ala Leu Pro Glu
 35

<210> 250
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 250
 Ser Trp Ser Leu Met Phe Ile Leu Lys Leu Ala Ser Leu Phe Arg Leu

1	5	10	15
Leu Ile Gln Pro Leu Ala Phe Ser Phe Asn Leu Gly Gln Lys Asn Arg	20	25	30
Gln His Phe Leu Pro Pro Leu Pro His His His Pro Ile Tyr Ser Phe	35	40	45
Ser Leu Tyr Tyr His Asn Ser Pro Lys Arg Pro Lys Ser Ile Ile Lys	50	55	60
Ser Asn Asn Leu Ala Ser Asn Leu Asn Pro Ser Ile	65	70	75

<210> 251

<211> 21

<212> PRT

<213> Homo sapiens

<400> 251

Lys Leu Ala Ser Leu Phe Arg Leu Leu Ile Gln Pro Leu Ala Phe Ser	1	5	10	15
---	---	---	----	----

Phe Asn Leu Gly Gln	20
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<210> 252

<211> 20

<212> PRT

<213> Homo sapiens

<400> 252

Ser Phe Ser Leu Tyr Tyr His Asn Ser Pro Lys Arg Pro Lys Ser Ile	1	5	10	15
---	---	---	----	----

Ile Lys Ser Asn	20
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<210> 253

<211> 18

<212> PRT

<213> Homo sapiens

<400> 253

Lys Pro Pro Pro Pro Thr Pro Pro Phe Ala Tyr Thr Thr Pro Leu Leu	1	5	10	15
---	---	---	----	----

Leu Ser

<210> 254

<211> 63

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 254
 Met Leu Ala Cys Arg Arg Leu Pro Met Ser Gln Asn Pro Leu Ser Met
 1 5 10 15
 Leu Thr Leu Asp Thr Pro Leu Lys Pro Leu Ile Val Cys Ala Ser Gly
 20 25 30
 Cys Glu Val Pro Ala Pro Cys Gly Xaa Cys Ala Cys Thr Xaa Pro Ala
 35 40 45
 Leu Gln Phe Leu Cys Thr Tyr Ser Ser Ser Ala Val Leu Lys Cys
 50 55 60

<210> 255
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 255
 Leu Pro Met Ser Gln Asn Pro Leu Ser Met Leu Thr Leu Asp Thr Pro
 1 5 10 15
 Leu Lys Pro Leu Ile Val Cys Ala Ser Gly Cys Glu Val Pro
 20 25 30

<210> 256
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 256
 Ala Phe Gly Asp Thr Asp Ile Arg Gln Leu Phe Phe Ala
 1 5 10

<210> 257
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 257
 Arg Gly Ile Ser Val Leu Arg Arg Val Trp Gly Gln Pro Trp Arg Leu
 1 5 10 15

Gln Val Phe Ser Leu Pro Gln Gln Ser Pro Ala Gly Ala Pro Thr Gly

20

25

30

Ser Gln Arg Gly Met Ala Ala Thr Asp Phe Val Gln Glu
 35 40 45

<210> 258

<211> 23

<212> PRT

<213> Homo sapiens

<400> 258

Pro Glu Glu Ala Ser Phe Ala Cys Glu Gly Cys Gly Pro Pro Leu Pro
 1 5 10 15

Trp Ala Cys Ser Pro Gly Trp
 20

<210> 259

<211> 108

<212> PRT

<213> Homo sapiens

<400> 259

Lys Tyr Met Leu Tyr Arg Pro Gln Ala Ala Leu Asp Leu Val Ser Asp
 1 5 10 15

Thr Ser Asp Gln Lys Lys Pro Val Leu Arg Val Arg Gly Val Gly Pro
 20 25 30

Arg Cys Leu Gly Pro Ala His Arg Gly Gly Trp Thr Pro Ala Gly Ser
 35 40 45

Gln Pro Ala Val Thr Ser Gly Leu Leu Ala Ser Ser Ala Ser Gly Leu
 50 55 60

Leu Gly Ser Pro Ala Leu Cys Pro Ser Val Thr Ser Leu Ser Gly Cys
 65 70 75 80

Pro Val Leu Ala Ala Leu Ser Phe Val Arg Ile Thr Pro Ser Phe Phe
 85 90 95

Phe Ser Pro Asn Thr Ser Ser Pro Ile Ile Leu Arg
 100 105

<210> 260

<211> 28

<212> PRT

<213> Homo sapiens

<400> 260

Asp Gln Lys Lys Pro Val Leu Arg Val Arg Gly Val Gly Pro Arg Cys
 1 5 10 15

Leu Gly Pro Ala His Arg Gly Gly Trp Thr Pro Ala
 20 25

<210> 261
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 261
 Gln Pro Ala Val Thr Ser Gly Leu Leu Ala Ser Ser Ala Ser Gly Leu
 1 5 10 15

Leu Gly Ser Pro Ala Leu Cys Pro Ser Val Thr Ser
 20 25

<210> 262
 <211> 151
 <212> PRT
 <213> Homo sapiens

<400> 262
 Gln Arg Ile Ile Thr Val Ser Met Glu Asp Val Lys Ile Leu Leu Thr
 1 5 10 15

Gln Glu Asn Pro Phe Phe Arg Lys Leu Ser Ser Glu Thr Tyr Ser Gln
 20 25 30

Ala Lys Asp Leu Ala Lys Gly Ser Ile Val Leu Lys Tyr Glu Pro Asp
 35 40 45

Ser Ala Asn Pro Asp Ala Leu Gln Cys Pro Ile Val Leu Cys Gly Trp
 50 55 60

Arg Gly Lys Ala Ser Ile Arg Thr Phe Val Pro Lys Asn Glu Arg Leu
 65 70 75 80

His Tyr Leu Arg Met Met Gly Leu Glu Val Leu Gly Glu Lys Lys Lys
 85 90 95

Glu Gly Val Ile Leu Thr Asn Glu Ser Ala Ala Ser Thr Gly Gln Pro
 100 105 110

Asp Asn Asp Val Thr Glu Gly Gln Arg Ala Gly Glu Pro Asn Ser Pro
 115 120 125

Asp Ala Glu Glu Ala Asn Ser Pro Asp Val Thr Ala Gly Cys Asp Pro
 130 135 140

Ala Gly Val His Pro Pro Arg
 145 150

<210> 263
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 263

Asp Val Lys Ile Leu Leu Thr Gln Glu Asn Pro Phe Phe Arg Lys Leu
 1 5 10 15

Ser Ser Glu Thr Tyr Ser Gln Ala Lys
 20 25

<210> 264

<211> 28

<212> PRT

<213> Homo sapiens

<400> 264

Ala Lys Gly Ser Ile Val Leu Lys Tyr Glu Pro Asp Ser Ala Asn Pro
 1 5 10 15

Asp Ala Leu Gln Cys Pro Ile Val Leu Cys Gly Trp
 20 25

<210> 265

<211> 28

<212> PRT

<213> Homo sapiens

<400> 265

Leu His Tyr Leu Arg Met Met Gly Leu Glu Val Leu Gly Glu Lys Lys
 1 5 10 15

Lys Glu Gly Val Ile Leu Thr Asn Glu Ser Ala Ala
 20 25

<210> 266

<211> 25

<212> PRT

<213> Homo sapiens

<400> 266

Ala Gly Glu Pro Asn Ser Pro Asp Ala Glu Glu Ala Asn Ser Pro Asp
 1 5 10 15

Val Thr Ala Gly Cys Asp Pro Ala Gly
 20 25

<210> 267

<211> 14

<212> PRT

<213> Homo sapiens

<400> 267

Ile Leu Phe Ala Ala Ser Lys Gly Asp Asp Phe Gln Ala Asp
 1 5 10

<210> 268

<211> 14

<212> PRT
 <213> Homo sapiens

<400> 268
 Ile Leu Phe Ala Ala Ser Lys Gly Asp Asp Phe Gln Ala Asp
 1 5 10

<210> 269
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 269
 Leu Tyr Ala Gln Lys Leu Gly Ala Thr Cys Phe Cys Thr Asp Cys Arg
 1 5 10 15

Ser Lys

<210> 270
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 270
 Ala Gly Ile Gln His Glu Leu Ala Cys Asp Asn Pro Gly Leu Pro Glu
 1 5 10 15

Asn Gly Tyr Gln Ile Leu Tyr Lys Arg Leu Tyr Leu Pro Gly Glu Ser
 20 25 30

Leu Thr Phe Met Cys Tyr Glu Gly Phe Glu Leu Met Gly Glu Val Thr
 35 40 45

Ile Arg Cys Ile Leu Gly Gln Pro Ser His Trp Asn Gly Pro Leu Pro
 50 55 60

Val Cys Lys Val Ala Glu Ala Ala Ala Glu Thr Ser Leu Glu Gly Gly
 65 70 75 80

Asn

<210> 271
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 271
 Gln Pro Ser His Trp Asn Gly Pro Leu Pro Val Cys Lys Val Ala Glu
 1 5 10 15

Ala Ala Ala Glu Thr Ser Leu Glu Gly Gly Asn
 20 25

<210> 272
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 272
 Tyr Glu Thr Gly Glu Thr Arg Glu Tyr Glu Val Ser Ile
 1 5 10

<210> 273
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 273
 Trp Val Glu Lys Gly Glu Arg Gly Val Gly Pro Asp Thr Lys Glu Met
 1 5 10 15

Phe Ser Ala Ile Asn Gln Leu Gln Asn Lys
 20 25

<210> 274
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 274
 Gly Thr Ser Pro Lys Cys Trp Asp Tyr Arg Glu Leu Met Lys Val Glu
 1 5 10 15

<210> 275
 <211> 52
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 275
 His Glu Pro Lys Val Leu Gly Leu Gln Gly Val Asp Glu Ser Gly Asp
 1 5 10 15

Val Phe Arg Ala Thr Tyr Ala Ala Phe Arg Cys Ser Pro Ile Ser Gly
 20 25 30

Leu Leu Glu Ser His Gly Ile Gln Lys Val Ser Ile Thr Phe Xaa Pro
 35 40 45

Arg Gly Arg Gly

50

<210> 276

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 276

Asp	Tyr	Xaa	Gln	Phe	Trp	Asp	Val	Glu	Cys	His	Pro	Leu	Lys	Glu	Pro
1				5					10					15	

His	Met	Lys	His	Thr	Leu	Arg	Phe	Gln	Leu	Ser	Gly	Gln	Ser	Ile	Glu
			20					25					30		

Ala	Glu	Asn	Glu	Pro	Glu	Asn	Ala	Cys	Leu	Ser	Thr	Asp	Ser	Leu	Ile
		35					40					45			

Lys	Ile	Asp
	50	

<210> 277

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 277

His	Leu	Val	Lys	Pro	Arg	Arg	Gln	Ala	Val	Ser	Glu	Ala	Ser	Ala	Arg
1				5					10					15	

Ile	Pro	Asp	Xaa	Gln	Leu	Asp	Val	Thr	Ala	Arg	Gly	Val	Tyr	Ala	Pro
			20					25					30		

Glu	Asp	Val	Tyr	Arg	Phe	Leu	Pro	Thr	Ser	Val	Gly	Glu	Ser	Arg	Thr
		35					40					45			

Leu	Lys	Val
	50	

<210> 278

<211> 34

<212> PRT

<213> Homo sapiens

<400> 278

Asn	Leu	Arg	Asn	Asn	Ser	Phe	Ile	Thr	His	Ser	Leu	Lys	Phe	Leu	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1	5	10	15
Pro Arg Glu	Pro Phe Tyr Val Lys His	Ser Lys Tyr Ser	Leu Arg Ala
	20	25	30

Gln His

<210> 279
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 279
Glu Asn Leu Ser Thr Ser Cys Val Ser Cys Gln Val Val Phe Val Thr
1 5 10 15

Ser Glu Pro Ala Leu Thr Leu Pro Thr Tyr His Val Met Leu Ile Ser
20 25 30

Pro Thr Val Pro Cys Cys Ile Gly Ser Ala Leu Arg Ala Glu Ile
35 40 45

<210> 280
 <211> 195
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (40)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (161)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 280
Asp Asp Asp Gly Leu Pro Phe Pro Thr Asp Val Ile Gln His Arg Leu
1 5 10 15

Arg Gln Ile Glu Ala Gly Tyr Lys Gln Glu Val Glu Gln Leu Arg Arg
20 25 30

Gln Val Arg Asp Ser Asp Glu Xaa Gly His Pro Ser Leu Leu Cys Pro
35 40 45

Ser Ser Arg Ala Pro Met Asp Tyr Glu Asp Asp Phe Thr Cys Leu Lys
50 55 60

Glu Ser Asp Gly Ser Asp Thr Glu Asp Phe Gly Ser Asp His Ser Glu
65 70 75 80

Asp Cys Leu Ser Glu Ala Ser Trp Glu Pro Val Asp Lys Lys Glu Thr
85 90 95

Glu Val Thr Arg Trp Val Pro Asp His Met Ala Ser His Cys Tyr Asn
100 105 110

Cys Asp Cys Glu Phe Trp Leu Ala Lys Arg Arg His His Cys Arg Asn
115 120 125

Cys Gly Asn Val Phe Cys Ala Gly Cys Cys His Leu Lys Leu Pro Ile
130 135 140

Pro Asp Gln Gln Leu Tyr Asp Pro Val Leu Val Cys Asn Ser Cys Tyr
145 150 155 160

Xaa Thr His Ser Ser Leu Ser Cys Gln Gly Thr His Glu Pro Thr Ala
165 170 175

Glu Glu Thr His Cys Tyr Ser Phe Gln Leu Asn Ala Gly Glu Lys Pro
180 185 190

Val Gln Phe
195

<210> 281

<211> 28

<212> PRT

<213> Homo sapiens

<400> 281

Ser Glu Ala Ser Trp Glu Pro Val Asp Lys Lys Glu Thr Glu Val Thr
1 5 10 15

Arg Trp Val Pro Asp His Met Ala Ser His Cys Tyr
20 25

<210> 282

<211> 10

<212> PRT

<213> Homo sapiens

<400> 282

His His Cys Arg Asn Cys Gly Asn Val Phe
1 5 10

<210> 283

<211> 14

<212> PRT

<213> Homo sapiens

<400> 283

Arg Leu Arg Gln Ile Glu Ala Gly Tyr Lys Gln Glu Val Glu
1 5 10

<210> 284

<211> 40

<212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 284
 Val Asn Lys Ser Asn Gly Arg Xaa His Gly Arg Arg Ala Tyr Arg Xaa
 1 5 10 15
 Ser Leu Ser Ile Ala Phe Pro Arg Lys Pro Gln Phe Arg His Arg Ser
 20 25 30
 Pro Glu Val Ser Pro Ser Asp Leu
 35 40

<210> 285
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 285
 Ser Pro Ile Pro Ser Glu Glu Val Lys Glu Ile Pro His Arg Tyr Arg
 1 5 10 15
 Gly Ser Arg Cys Pro Arg Thr Ser Asn Ser Arg Phe Gly Pro Arg Arg
 20 25 30
 Leu Ala Pro Thr Ser Thr Thr
 35

<210> 286
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 286
 Ser Pro Ile Pro Ser Glu Glu Val Lys Glu Ile Pro His Arg Tyr Arg
 1 5 10 15
 Gly Ser Arg Cys Pro Arg Thr Ser Asn Ser Arg Phe Gly Pro Arg Arg
 20 25 30
 Leu Ala Pro Thr Ser Thr Thr
 35

<210> 287
 <211> 14

<212> PRT
 <213> Homo sapiens

<400> 287
 Trp Gln Glu Ala Glu Met Asp Met Ala Trp Gln Lys Ser Ile
 1 5 10

<210> 288
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 288
 Met Ala Ser Ser Asp Glu His Ser Ser Ile Leu Gln Gly Leu Leu Ser
 1 5 10 15

His His Ser Leu
 20

<210> 289
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 289
 Lys Arg Gln Pro Thr Ser Ala Met Lys Asp Pro Ser Arg Ser Ser Thr
 1 5 10 15

Ser Pro Ser Ile Ile Asn Glu Asp Val Ile Ile Asn Gly His Ser His
 20 25 30

Glu Asp Asp Asn Pro Phe Ala Glu Tyr Met Trp Met
 35 40

<210> 290
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 290
 Glu Asn Glu Glu Glu Phe Asn Arg Gln Ile Glu Glu Glu Leu Trp Glu
 1 5 10 15

Glu Glu Phe Ile Glu Arg Cys Phe Gln Glu Met Leu Glu Glu Glu
 20 25 30

Glu His Glu Trp Phe Ile Pro Ala Arg Asp Leu Pro Gln
 35 40 45

<210> 291
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 291

Thr Met Asp Gln Ile Gln Asp Gln Phe Asn Asp Leu Val Ile Ser Asp
 1 5 10 15

Gly Ser Ser Leu Glu Asp Leu Val Val Lys Ser Asn Leu Asn Pro Asn
 20 25 30

Ala Lys Glu Phe Val Pro Gly Val Lys Tyr Gly Asn Ile
 35 40 45

<210> 292

<211> 87

<212> PRT

<213> Homo sapiens

<400> 292

Met Ser His Cys Ala Arg Pro Leu Phe Phe Glu Thr Phe Phe Ile Leu
 1 5 10 15

Leu Ser Pro Arg Leu Lys Cys Ser Gly Thr Asn Thr Val His Tyr Ser
 20 25 30

Leu Asp Leu Leu Gly Ser Ser Asn Ser Ala Ser Val Pro Gln Val Gly
 35 40 45

Gly Leu Thr Asn Ala Gln His Asp Thr Trp Leu Ile Phe Val Phe Cys
 50 55 60

Val Cys Val Cys Glu Pro Leu Arg Arg Pro Trp Ala Ala Phe Leu Ile
 65 70 75 80

Ser Val Thr Ser Ser Ile Lys
 85

<210> 293

<211> 30

<212> PRT

<213> Homo sapiens

<400> 293

Val Pro Gln Val Gly Gly Leu Thr Asn Ala Gln His Asp Thr Trp Leu
 1 5 10 15

Ile Phe Val Phe Cys Val Cys Val Cys Glu Pro Leu Arg Arg
 20 25 30

<210> 294

<211> 16

<212> PRT

<213> Homo sapiens

<400> 294

Pro Arg Asp Leu Pro Ala Ser Ala Ser Gln Ser Ala Arg Ile Thr Gly
 1 5 10 15